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FRIDAY, NOVEMBER 8, 2002

MORNING SESSION

The matter of LAURENCE LUCIER and LAURIE LUCIER,  
Plaintiffs, versus PHILIP MORRIS INCORPORATED and  
R.J. REYNOLDS TOBACCO COMPANY, Defendants, Case No. 02AS01909,  
came on regularly this day before the Honorable Steven H.  
Rodda, Judge of the Superior Court of the State of California,  
for the County of Sacramento, Department One.

The Plaintiffs, LAURENCE LUCIER and LAURIE LUCIER, were  
represented by: GARY M. PAUL, Attorney at Law; ROBERT M.  
BROWN, Attorney at Law; and MARY ALEXANDER, Attorney at Law  
(not present).

The Defendant, PHILIP MORRIS INCORPORATED, was  
represented by: GERALD V. BARRON, Attorney at Law; LAURA C.  
FEY, Attorney at Law; STEPHANIE A. SCHRANDT, Attorney at Law  
(not present); DEBORAH A. SMITH, Attorney at Law (not present);  
and ANNIE Y.S. CHUANG, Attorney at Law (not present).

The Defendant, R.J. REYNOLDS TOBACCO COMPANY, was  
represented by: THEODORE M. GROSSMAN, Attorney at Law; STEVEN  
N. GEISE, Attorney at Law; HAROLD K. GORDON, Attorney at Law;  
DANIEL J. McLOON, Attorney at Law; and ELIZABETH P. KESSLER,  
Attorney at Law.

(The following proceedings were then had in open court  
outside the presence of the jury.)

THE COURT: Good morning.

COUNSEL IN UNISON: Good morning, your Honor.

MR. GROSSMAN: I had only one thing I wanted to take up  
before the jury comes back.

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THE COURT: Okay.

MR. GROSSMAN: Because a lot of the jurors have not been  
able to see the charts because of where we put it, we had small  
copies made to be handed out, if the Court approves, and given  
back after I have finished using that chart.

MR. PAUL: I object.

This is an opening statement. They've got a board here.  
They've got television screens in which they've shown this.  
Putting things in jurors' hands to allow them to follow along  
during an opening statement I think is inappropriate. It gives

11 it much more weight than someone standing up saying, Here's  
12 what I want to show.  
13 I would have loved to have handed out my entire packet  
14 yesterday and gone through it, but I think it's inappropriate  
15 in an opening statement. It gives added weight to something  
16 that is supposed to be what the attorneys are saying they think  
17 the evidence will prove.  
18 I don't know that any jurors have stated they weren't  
19 able to see this board. I can see it from here, and I don't  
20 have the best eyesight in the world.  
21 So I just think it's inappropriate. I don't think it is  
22 necessary, and I think it's prejudicial because it adds extra  
23 weight to what he's handing out.  
24 MR. GROSSMAN: My understanding is that some jurors have  
25 said they couldn't see it, they reported that to Aaron I  
26 believe. We would hand it only to those people who said they  
27 can't see the board. It's only a demonstrative aid.  
28 Plaintiffs have had it for two days. We would hand one up to  
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1 the Court as well. It's a simple time line.  
2 Your Honor, if I could just hand you a copy of --  
3 THE COURT: I think -- is this it?  
4 MR. PAUL: No. That's mine, your Honor. Maybe I'm  
5 incorrect. No, that's the one.  
6 MR. GROSSMAN: Yeah. It's a time line of events.  
7 THE COURT: Have you had something that you wanted to  
8 display to the jury in a similar way?  
9 MR. PAUL: Sure. I would have loved to have handed  
10 my time lines out to the jury. I didn't do it because I  
11 thought -- I've always been under the belief that you don't  
12 hand things to jurors during opening statements because of the  
13 extra weight that it gives to it that it's more important and  
14 they should follow along with it. It's supposed to be words of  
15 the attorney.  
16 THE COURT: All right. I'm going to sustain the  
17 objection.  
18 MR. GROSSMAN: Excuse me?  
19 THE COURT: I'm going to sustain the objection.  
20 Plaintiff didn't have this opportunity. I'm trying to strike a  
21 balance here. I think in fairness you shouldn't be able to.  
22 You can read it to the jurors if they can't see. But I do  
23 think that there is --- it suggests some significance if they  
24 have it in their hands that might not be appropriate at this  
25 stage of the proceedings.  
26 Anything else?  
27 MR. BARRON: Your Honor, briefly.  
28 THE COURT: Yes.  
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1 MR. BARRON: I just would like to alert the Court. I  
2 gave you an estimate of my opening. It's very difficult going  
3 last. I went through and I took out a lot of things and I  
4 realized I had to add.  
5 THE COURT: Right.  
6 MR. BARRON: Because I don't want to put the jurors to  
7 sleep, I'll do my best to keep it to something like that. But  
8 to be very candid, I don't have any real idea how long this  
9 thing is going to last.  
10 THE COURT: That's fine.  
11 MR. BARRON: I just want to alert you.  
12 THE COURT: Okay. I do want to take breaks at fairly  
13 regular intervals here. So maybe around 10:00 o'clock.

14 MR. GROSSMAN: That's fine, your Honor.  
15 THE COURT: Okay.  
16 MR. GROSSMAN: Whenever -- do you want me -- I'll look at  
17 the clock -- to tell you a reasonable breaking point, or do you  
18 just want to --  
19 THE COURT: That would be fine. And if you're not aware  
20 of that because you're focusing on your argument, then I'll try  
21 to find a logical breaking point for you.  
22 MR. GROSSMAN: All right. That's fine.  
23 THE COURT: Let's bring the jury in.  
24 (Pause.)  
25 THE COURT ATTENDANT: Please be seated and come to  
26 order. Court is now in session.  
27 THE COURT: Good morning.  
28 Okay. Mr. Grossman.

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1 MR. GROSSMAN: Thank you very much, your Honor.  
2 Could I have slide eight, please.  
3 Oh, thank you.  
4 When we left yesterday I was discussing the second item  
5 on here, funding independent research. It was talking about  
6 funding by the Tobacco Industry Research Committee and the  
7 Council for Tobacco Research, tens of millions of dollars over  
8 the years to a variety of independent scientists. That was not  
9 the only independent research that was funded by Reynolds and  
10 Philip Morris.  
11 In 1963 --  
12 MR. PAUL: Your Honor, may we approach for just one  
13 moment, please?  
14 THE COURT: All right.  
15 Please don't overhear our conversation.  
16 (The following bench conference was then had.)  
17 MR. PAUL: I'm a little surprised to be hearing people  
18 talking about tens of millions of dollars spent on research  
19 when a motion was made to preclude me from bringing up the fact  
20 of advertising and research because it went to the value of  
21 companies. Now -- now I'm hearing tens of millions of dollars  
22 of research. I would have loved to have read in that memo  
23 yesterday, and now I'm hearing it spit back at me. I think  
24 it's inappropriate.  
25 THE COURT: Well, that certainly -- I can take that into  
26 account when we rule on the admissibility of the exhibits.  
27 MR. PAUL: I think he certainly opened the door, your  
28 Honor. Thank you.

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1 THE COURT: In any event, I'll address that issue when it  
2 comes up.  
3 You can proceed.  
4 (Bench conference concluded.)  
5 MR. GROSSMAN: Thank you, your Honor.  
6 Getting back to where I was. In 1963, Reynolds and  
7 Philip Morris began funding with the American Medical  
8 Association, additional research conducted by outside  
9 scientists into various matters relating to smoking and health.  
10 Again, neither Reynolds nor Philip Morris decided who the  
11 scientists were that would get the money, nor did they decide  
12 what the projects would be. This was simply funding for the  
13 research.  
14 In 1964, Reynolds funded inhalation studies at the Bowman  
15 Gray Medical School in North Carolina where animals were  
16 exposed to whole smoke to see if it could induce lung cancer.

17 And over the years there have been various studies funded by  
18 these companies by outside scientists and published -- all  
19 published in the medical literature.  
20 Reynolds also did work, number three, studying  
21 intensively smoke chemistry. That was work they did  
22 themselves. That was an area where they had expertise and  
23 where it went to the way cigarettes were designed.  
24 Now, in 1950 -- and I'm sorry that those of you back  
25 there I'm sure are having trouble seeing this, but in 1950  
26 there were 90 constituents, 90 chemicals in smoke that were  
27 known. Reynolds started to work on figuring out the chemicals  
28 that are in smoke around the early 1950s.

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1 They built a machine -- they had to design it themselves,  
2 it went up four stories in one of their buildings -- that  
3 isolated the smoke, took huge amounts of smoke and broke it  
4 down into minute particles so they could start to focus on the  
5 chemistry of the cigarettes and try to figure out what in  
6 cigarettes, if they could find it, they could take out to make  
7 the cigarettes less dangerous.

8 Over the years, by 1960 Reynolds -- the -- a total of  
9 about 450 compounds had been identified in smoke. Now, people  
10 all over the world were studying smoke chemistry. But I can  
11 tell you the evidence will show that of the 450 chemicals found  
12 in smoke by 1960, Reynolds had discovered about 300, and it had  
13 published them in the literature. It had discovered over half  
14 of all the chemicals known in smoke.

15 Today, although Mr. Paul said in his opening that there  
16 are 200 chemicals in smoke, there are 4800 chemicals that have  
17 been found in smoke, 4,800. Reynolds' scientists are  
18 responsible for having found over half. Of all the scientists  
19 in the world, Reynolds has found over half.

20 Most of these are in absolutely minute quantity, measured  
21 in nanograms, picograms; that's billions, trillions of a  
22 particle. Of those, about 40 of the chemicals that have been  
23 discovered in smoke have been identified as animal carcinogens.  
24 That is, if you give in sufficient quantity to an animal, the  
25 chemical, it can create cancer.

26 Some others have been determined to be cancer promoters  
27 and others cancer inhibitors. That mixture is very common in  
28 any burnt material. It's on the surface of your steak, if you

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1 broil it. It's in leaves when they burn. It's in anything  
2 that they burn.

3 Indeed, one of plaintiff's experts, Sir Richard Doll,  
4 will say, We live in a sea of animal carcinogens. It's all  
5 around us. It's in the air. It's everywhere.

6 The first of the carcinogens that was believed to  
7 cause -- believed to be the likely cause of the observed  
8 increase in lung cancer among smokers is called benzopyrene and  
9 that was discovered to be in smoke in the early fifties.

10 By 1964 though, when the Surgeon General issued his  
11 famous report that I'll come to in a few minutes, the Surgeon  
12 General determined -- and I think the experts in this case will  
13 say -- there's simply not enough of it in smoke, in cigarette  
14 smoke to account for the lung cancer increase that's seen in  
15 smokers.

16 In fact, no one knows, as plaintiffs expert Sir Richard  
17 Doll will say, which chemical or chemicals are most responsible  
18 in smoke for the observed increase in cancer or other  
19 diseases.

20 Work continues in that area. But you can imagine the  
21 difficulty that makes for cigarette designers in trying to  
22 figure out which chemicals they can eliminate or reduce,  
23 because if you -- if you reduce some chemicals you increase  
24 others.

25 And there has been a -- what amounts to a moving target  
26 for cigarette designers in trying to figure out how to design  
27 cigarettes. But throughout, the designers at Reynolds have  
28 followed the public health literature and their own research,

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1 which they published, in order to determine the best way to  
2 make cigarettes that smokers will want to smoke and will  
3 remove, first of all, all of the chemicals to the extent  
4 possible, and secondly, specific chemicals to the extent  
5 possible.

6 All right. Now, I mentioned here designing products to  
7 reduce tar and nicotine. Not only did they study smoke  
8 chemistry but they even -- even in the late 1940s before the  
9 first published reports in the literature -- worked on ways to  
10 reduce tar and nicotine in all cigarettes.

11 And one of the first ways was the invention of  
12 reconstituted tobacco sheet. It's long been known that the  
13 cigarette stem -- I'm sorry -- the tobacco stem contains less  
14 nicotine than the leaf. It's also been known that it burns  
15 somewhat cleaner. It has less tar. But a stem can't be made  
16 into a cigarette or a cigar because it's just too hard. It --  
17 smokers don't -- wouldn't like it. It doesn't look like  
18 tobacco.

19 In the late 1940s, Reynolds invented a process to take  
20 the stems and to process them basically into paper and then to  
21 cut the paper so it looked like and would smoke much like  
22 regular tobacco from the leaf. That invention by itself  
23 reduced tar and nicotine in all cigarettes in which they were  
24 constituted tobacco sheet was one, including unfiltered  
25 cigarettes.

26 In fact, Sir Richard Doll, again, plaintiffs expert who  
27 you will hear from, says that the reduction that occurred from  
28 35 milligrams of tar to 25 milligrams of tar from the 1940s to

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1 the 1950s and early 1960s in average cigarettes made cigarettes  
2 less dangerous, reduced the amount of lung cancer attributable  
3 to cigarettes by 20 percent. That invention was Reynolds'.

4 The first cigarette, first filter cigarette that was ever  
5 successful in the American market was Winston. It was  
6 introduced by Reynolds in 1954. And that's the chart --

7 You anticipate me. Thank you.

8 Reynolds made a number of inventions that were used in  
9 Winston that specifically reduced tar and nicotine as measured  
10 by the FTC standards, and those are the only standards that the  
11 government allows or that the researchers use.

12 As you can see, in 1954 the tar yield of a Winston was 38  
13 milligrams, which was about the same as unfiltered cigarettes  
14 at the time.

15 In 1956, Reynolds introduced a faster burning paper on  
16 the outside of -- of the tobacco. It was thought -- some  
17 people thought at the time that it might be the paper rather  
18 than the tobacco that was responsible for the observed increase  
19 in lung cancer rates, and that had something to do with the  
20 introduction of that faster burning paper. But in addition,  
21 the faster burning paper made the tobacco burn a little bit  
22 differently and allowed the reduction of tar and nicotine.

23 In 1957, Reynolds made the filter longer. That reduced  
24 the amount of tobacco in the cigarette. Indeed, it reduced the  
25 amount of available nicotine in the cigarette.

26 In 1959, it introduced porous paper. And this isn't --  
27 these aren't holes, perforations in the filter where Mr. Paul  
28 said that people hold their hands when they smoke. And by the

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1 way, people don't hold their hand like this (indicating) when  
2 they take a puff on the cigarette, they take their hand off  
3 it. But this is the -- this is the paper itself wrapped around  
4 the tobacco so that air came in throughout the cigarette  
5 reducing the concentration of smoke.

6 In 1963, Reynolds made the circumference narrower.  
7 Essentially making the cigarette, although it seemed to the  
8 smoker to be burning at the same rate, giving less smoke. The  
9 overall effect of that as you can see is that tar in 1938 was  
10 38 milligrams. And in 1962, when Mr. Lucier says that he first  
11 smoked Winstons, tar was 22 milligrams. Almost half.

12 Nicotine in 1954 when the cigarette was introduced was  
13 about three milligrams. In 1962 it was one and a half. Both  
14 had been cut down in half before Mr. Lucier had ever smoked a  
15 Winston.

16 Now, the Reynolds' story with Mr. Lucier ends in 1966.

17 Thank you very much.

18 And I believe that Mr. Barron may discuss additional  
19 advances that were made in cigarette design after 1966 when  
20 Mr. Lucier smoked products by Philip Morris. If not, certainly  
21 you'll hear them -- about them during the trial.

22 But let me give you just a little bit of an overview of  
23 some scientific work that was done in the years after 1966 that  
24 Reynolds was a part of because it will bear upon much of the  
25 evidence that you hear in this case.

26 In the 1970s the United States Government, the National  
27 Cancer Institute, worked -- offered a program to try to design  
28 less hazardous cigarettes. It was called the Tobacco Working

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1 Group. Reynolds participated. Principal Reynolds scientists  
2 participated. So did Philip Morris scientists. So did Ernst  
3 Wynder's Associates, the researcher you heard about before.  
4 That was jointly funded by the government and the cigarette  
5 companies, jointly participated in by them. And it proposed  
6 the kind of advances in cigarette design that you will hear  
7 protested, criticized by the plaintiffs in this case.

8 After about ten years the evidence will show that for  
9 political concerns of some kind the government stopped funding  
10 the program.

11 So what did the cigarette companies do? Did they stop  
12 doing the work? No. They got together with the same outside  
13 scientists, like Ernst Wynder's Associates, and they went to  
14 what was called the Banbury Conference. And they continued to  
15 work on exactly the same kind of issues, trying to find ways to  
16 make cigarettes that would be palatable to smokers, that  
17 smokers wanted, but that would reduce the risks. And many  
18 ideas came out of that, and all of them were incorporated into  
19 the cigarettes made by these companies.

20 Indeed, what you will see is that these American  
21 companies led the world in cigarette design and led the world  
22 in reduction of tar and nicotine. And they also monitored each  
23 other, making sure that -- looking at each other's cigarettes,  
24 making sure first of all that those cigarettes -- that there  
25 weren't any advances that they didn't know about. And

26 secondly, making sure that the cigarettes conformed to  
27 government standards, and if they didn't, they would bring a  
28 suit against each other. That happened not in the case of  
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1 these two companies, but these two companies brought a suit  
2 against another company.

3 Now, these companies did that work despite the fact that  
4 consumers were slow to go to lower tar cigarettes, especially  
5 ultra low-tar cigarettes. Because they didn't want them. They  
6 did it not because of the demand generated by consumers but  
7 purely for the hopeful health of the consumers. And there was  
8 a tremendous amount of resistance from some consumers despite  
9 what those consumers read in the paper.

10 You should know that the Surgeon General and various  
11 public health authorities in the 1970s and 1980s were publicly  
12 suggesting that smokers switch to lower tar cigarettes.

13 Mr. Lucier you will hear heard a number of calls for such  
14 switches. But that notwithstanding, Mr. Lucier said that he  
15 had no interest in trying cigarettes with lower tar and  
16 nicotine from the Merits that he chose. He knew there were  
17 ultra low-tar Merits. He decided not to use them. He had no  
18 interest in them.

19 He wanted a cigarette that fit just what he wanted. He  
20 wanted to have the filter that he liked, the draw that he liked  
21 and the taste that he liked. And although he tried some  
22 cigarettes he said like True and Vantage that had funny filters  
23 as he saw them, he said he wouldn't smoke them even if he  
24 thought they provided less risk. He had no interest.

25 He would not move to what he viewed or what was called a  
26 less -- potentially less hazardous cigarette, a lower tar and  
27 lower nicotine cigarette unless it was one he wanted, and he  
28 didn't even want to try them.

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1 Now, what about warnings? Today we live in a different  
2 world than in the fifties or the sixties. And, in fact,  
3 Professor Schaller when he comes here will tell you a little  
4 bit about how historians look at different periods of time and  
5 try to put things in context. They actually refer to what they  
6 view as a prejudice, what they call presentism, when people try  
7 to look at the past through today's eyes, try to view the past  
8 through today's standards. They view that as a prejudice,  
9 something that historians as part of the historical method work  
10 very hard to avoid.

11 Today we have warnings on products of all kinds.  
12 Everyone here is familiar with them. They're on alcohol.  
13 They're on food. My favorite is the Batman cape that says,  
14 "You can't fly with this."

15 But in the fifties there were no warnings on any consumer  
16 products. On any consumer products. And the first call for  
17 warnings of -- on consumer products came with cigarettes in the  
18 fifties when the first studies were being published.

19 The public health authorities though looked at it quite  
20 differently than they do today. First of all, society viewed  
21 this issue not as a company-by-company issue, but as a societal  
22 issue from the very beginning. And the question was, Should  
23 some unitary, unified warning be put on cigarettes? The idea  
24 was introduced in the mid-fifties.

25 Now, if I could have slide number twelve, please.

26 Here's the director of the American Cancer Society in  
27 1955. "In my opinion people should be warned of the danger,  
28 and they are being warned. What they then want to do, whether



1 they wish to smoke or not, is their own business."

2 The calls for warnings that first came up at the time  
3 were rejected because public health authorities believed that  
4 the public was hearing all of this information through the  
5 press and the public had enough information to make its own  
6 decisions.

7 Indeed, there was a flood of information. And the  
8 suggestion by plaintiffs in opening that either of these  
9 companies, or any companies, could stand in the way of that  
10 flood of information is wrong in a number of ways.

11 The evidence will show that these companies did not stand  
12 in the way of that flood of information. And the evidence will  
13 also show that any attempt to do so would be like trying to  
14 hold back the tides. The amount of information about the  
15 health risks of cigarettes was so widely disseminated for so  
16 long and in so many different media that no one could avoid  
17 it.

18 Now, the big call for warnings on cigarettes came after  
19 the 1964 Surgeon General's report.

20 Thank you very much, Melanie.

21 Let me tell you the story. In 1962, President Kennedy  
22 was at a press conference, and it occurred after some medical  
23 authority's mailing had concluded that cigarettes were a cause  
24 of lung cancer. In England they were much faster to grab  
25 epidemiology and statistics as a way to establish cause than in  
26 the United States. President Kennedy was asked about it and he  
27 said -- about the health risks of cigarettes -- and he said,  
28 I'll refer that to the Surgeon General, that question to the

1 Surgeon General.

2 The Surgeon General then appointed a committee of  
3 distinguished scientists, none of whom had written on smoking  
4 health, all of whom would by definition come with a free mind  
5 to look at the project, to look at the issue.

6 There was tremendous public reporting about it. For two  
7 years the Surgeon General's committee met in secret, and there  
8 were reports about leaks coming from the committee about what  
9 they were studying and what they read and what they were  
10 concluding. The public was clamoring for their answer.

11 By the way, Mr. Lucier as you'll see and as I'll come to  
12 in much greater detail, young as he was, was already becoming  
13 what we might refer to as a news junkie, someone who read the  
14 paper and watched the news on TV on a regularly -- on a fairly  
15 regular basis, every day. In fact, he was already subscribing  
16 to magazines at the time, news magazines.

17 In 1964, January of 1964, the report was ready. It was  
18 such a big story that the committee rather than going to what  
19 was then the Department of Health Education and Welfare, now  
20 the Department of Health and Human Services, didn't hold its  
21 report in the auditorium of that agency but went to the State  
22 Department where there was a bigger room, bigger auditorium.

23 They issued the report on a Saturday because the stock  
24 markets would be closed. They brought in the reporters and  
25 locked the doors, gave them an hour to peruse the report before  
26 the Surgeon General came in to answer questions.

27 Then the Surgeon General came in. What the report said  
28 was that it was the conclusion of the committee that even

1 though the experimental evidence had not produced cancer in the

2 lungs of animals, and even though the mechanism was not known,  
3 it was their judgment, based on the totality of evidence  
4 primarily from the statistics, the epidemiology, that cigarette  
5 smoking was a cause of lung cancer in men. And likely in  
6 women, although they reserved that decision for a few years.

7 After -- after that report came out it was reported  
8 throughout the country as one of the biggest news stories of  
9 1962 -- 1964. And the news stories of 1964, as you'll hear,  
10 were enormous stories. Assassinations in this country, two  
11 horrible assassinations in this country, a presidential  
12 election, the apex, the center of the civil rights movement.  
13 In that group of enormous stories this was one of the largest  
14 stories of the year. Indeed, one of the largest stories of the  
15 decade. And the story of cigarettes and health is the public  
16 health story, you will learn, of the century.

17 Now, in the wake of that report there were various calls  
18 for different kinds of action by the government. Some people  
19 said, Ban cigarettes. Other people said, Put on warnings.  
20 Other people said, Regulate them in a different way. Different  
21 federal agencies in different states started to -- to develop  
22 their own regulations with regard to cigarettes, and then  
23 Congress stepped in.

24 It determined that cigarettes were a legal product,  
25 reaffirmed that they were a legal product, and that commerce in  
26 cigarettes and sale of cigarettes were legal. It also mandated  
27 a warning and it wrote the warning itself. And that first  
28 warning that came on in 1966, which is slide fourteen, was this

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1 simple one. "Caution: Cigarette smoking may be hazardous to  
2 your health."

3 Thank you.

4 Now, that warning was not intended to state everything  
5 that people had heard about the risks of smoking. Rather, it  
6 was to be the same kind of warning that you get at home from  
7 your mother when you're growing up. "Remember what I told  
8 you. Remember what I told you." And people did remember what  
9 they were told. And people -- Mr. Lucier and others you will  
10 learn -- understood exactly what that referred to. It referred  
11 to lung cancer.

12 Now, having come this far and discussing the Reynolds  
13 story and the scientific story, I'm going to turn to the Larry  
14 Lucier story.

15 Put up the next.

16 How many lawyers does it take? Okay.

17 Mr. Lucier was born in 1950. He started watching the TV  
18 news regularly in 1957. He started his life-long interest in  
19 following the news at a very young age. He was living in  
20 Rochester, New York. And way back in his youth, as I mentioned  
21 yesterday, the evidence will show that he heard cigarettes  
22 referred to as "cancer sticks" and "coffin nails." And he also  
23 heard the people who smoked and who didn't have a cigarette  
24 wanted a cigarette were having "a nicotine fit." And he  
25 understood that that meant that they had -- they felt they had  
26 a need for another cigarette.

27 In 1960 at the age of ten he started to read the  
28 newspaper regularly. And at the same time he was taking safety

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1 and health classes in school that taught specifically about the  
2 health risks of smoking.

3 In 1961 his family moved to Missouri. Clayton, Missouri,  
4 a suburb of Saint Louis. His father had become president of

5 the largest regional telecommunications company and they moved  
6 into a big house. There were eleven brothers and sisters.  
7 Mr. Lucier had his own room. He says that that big house gave  
8 him places to hide and to smoke.

9 And it was just in that year when, according to his  
10 testimony, he and his sister -- actually his sister started  
11 first -- but he started to steal his mother's, and sometimes  
12 his father's, cigarettes. His mother lived at home, stayed at  
13 home, worked in the house. His father was off at work. So it  
14 was his mother's cigarettes, the Kents, that were most  
15 available. And he says that he was smoking about two a day  
16 starting in 1961.

17 As I address this smoking history I think the record will  
18 show and the evidence will show that the only source we have  
19 for the amount that Mr. Lucier smoked or when he started  
20 different brands, but particularly the amount that he smoked,  
21 is Mr. Lucier himself. And you'll have to judge whether the  
22 amounts he says he smoked were accurate.

23 In 1962 he started to subscribe to Time magazine.

24 And could we have the slide, please.

25 This is the extent to which Mr. Lucier was a news junkie  
26 as I called him. He started watching TV nightly news on NBC,  
27 the Huntley-Brinkley Report in 1957, and he continued watching  
28 that every night until 1963 when he switched to Walter

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1 Cronkite, and later Dan Rather on the CBS Evening News. He's  
2 watched that religiously the rest of his life.

3 On Sunday mornings he would watch both Face the Nation  
4 and Meet the Press, starting in the 1960s.

5 In the 1980s and 1990s he watched the McNeal-Lehrer Hour  
6 report on PBS for news as well. And starting in the 1980s and  
7 through the 1990s he watched Nightline at 11:30 on ABC. He  
8 also watched cable news. His favorite was Fox throughout the  
9 last decade.

10 Starting in 1960 he began to read the newspaper wherever  
11 he lived. First the Rochester Times Union and then the Saint  
12 Louis Post Dispatch, and the Phoenix Gazette when he lived in  
13 Arizona, back to the Saint Louis Post Dispatch, the Phoenix  
14 Gazette, The Miami Herald when he lived in Florida, and the  
15 Chronicle and Examiner in Northern California, mostly in  
16 San Francisco.

17 He also read the Wall Street Journal while he was in  
18 college and buys it whenever he finds it available. And he  
19 reads the New York Times when it's available. And he started  
20 subscribing to Time in 1962 and has read it religiously ever  
21 since.

22 The evidence will show that this is not a man who was  
23 unfamiliar with all that has been written and said about the  
24 risks of smoking. This is a man who is particularly familiar  
25 with it and has been all his life.

26 Now -- thank you very much.

27 Returning to the time line. In 1964, the Surgeon  
28 General's warning -- the Surgeon General's report came out. It

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1 was reported in all of those media that we were talking about.  
2 You will see it was in Time magazine; you will see it was in  
3 his local newspaper; and it was the central issue on many TV  
4 shows. And those reports were all the same; this kills.  
5 Secondly, it's up to you to decide what to do about it.

6 It had no effect -- whatever effect it had on  
7 Mr. Lucier's conscience, it had no effect on his conduct. He

8 continued to smoke. He made no effort to stop.  
9 Now, in 1965, as you've heard, Mr. Lucier went to a  
10 boarding school, a seminary, and stopped smoking for seven  
11 months. You will hear that he had no symptoms of withdrawal  
12 when he stopped smoking. None whatsoever. He would have liked  
13 a cigarette, but he had no symptoms whatsoever.  
14 When the seven months were over and he came out of the  
15 seminary he decided to smoke. And the reason he decided to  
16 smoke was he had decided he didn't want to stop. And when he  
17 picked up a new pack of cigarettes it had the warning on them.  
18 Here he had stopped smoking for seven months; he picked up  
19 cigarettes that had the warning; he remembers having seen the  
20 warning; he understood the warning; and he decided to smoke.  
21 He decided to start smoking again with the warning on the  
22 package.  
23 It was right about that time -- and the evidence is  
24 unclear because Mr. Lucier has given slightly different  
25 accounts whether he went immediately to Marlboro or whether he  
26 smoked Winston for about two months before switching to  
27 Marlboro when he came out of the seminary. But in any event,  
28 that was about the time he switched to Marlboro.

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1 Now, through all of this he understood that he wasn't  
2 supposed to smoke. Through all of this time until he was an  
3 adult he never smoked in front of his parents. He hid it from  
4 his parents. He hid it from school. He also hid it from the  
5 woman who worked in his house, an Malvina Connolly (phonetic).  
6 Somehow Mr. Lucier says he was smoking a pack of  
7 cigarettes a day starting in 1966. And his mother didn't know  
8 and his father didn't know and his domestic servant didn't  
9 know. And he didn't smoke in school. He never smoked on  
10 school grounds. He knew that that was not allowed.  
11 We will not contest that he smoked during that period,  
12 but the amount that he smoked, that he says he smoked, which  
13 you will see is inconsistent with what he told doctors over the  
14 years, does not seem to be in any way related to the amount of  
15 time that he had available to smoke or the amount of -- the  
16 amount of work he did to hide his smoking.  
17 In 1968, Mr. Lucier's father who was a three-pack-a-day  
18 smoker stopped cold turkey. It had no effect on Mr. Lucier.  
19 In 1969, a new warning came out by Congress. "The  
20 Surgeon General has determined that cigarette smoking is  
21 dangerous to your health." And Congress amended the law to  
22 say, not only that no other warning could be on cigarettes, but  
23 that no one could suggest that that warning was anything other  
24 than adequate.  
25 From that, Mr. Lucier saw the warning. He understood the  
26 warning. It had no effect on his conduct. He didn't try to  
27 cut down. He didn't try to stop. He had no interest in it.  
28 And when you hear testimony or argument that an earlier

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1 warning would have affected Mr. Lucier's conduct, you will also  
2 hear Mr. Lucier himself who said that if that warning had been  
3 on his cigarettes in 1966 when they picked them up again --  
4 when he picked them up again, it wouldn't have affected him.  
5 And indeed, he can't even say it would have affected him in  
6 1960 or 1961.  
7 Could we play clip nine, please.  
8 (Videotape played.)  
9 MR. GROSSMAN: Plaintiffs will not be able to meet their  
10 burden to show, among other things, that an earlier warning

11 would have affected Mr. Lucier's conduct. You'll see as other  
12 warnings came out nothing affected Mr. Lucier's conduct.

13 Now, in 1976 -- in the early 1970s, Mr. Lucier heard  
14 reports that cigarettes with reduced tar might be -- might  
15 reduce risk. He heard reports that tar itself was unhealthy.  
16 It really had no effect on his conduct for a long time. He  
17 tried a couple of low-tar cigarettes but he was not interested  
18 in them at all.

19 Then in 1976 -- and let me just make one correction for  
20 the record. Notwithstanding what Mr. Paul told you, the record  
21 will show that Mr. Lucier was on the ranch; it was his family's  
22 ranch; and he went there after he had gone to a little bit of  
23 college; he went there to run the ranch, run all the cowboys;  
24 that he was on the family ranch in Arizona in 1976 when he  
25 switched to Merit. Well, it was just when he became a cowboy  
26 or was working with cowboys that he switched away from  
27 Marlboro.

28 In 1978, his sister Jeanette stopped smoking. No effect  
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1 on Mr. Lucier.

2 1979, having gone back to school, Mr. Lucier became an  
3 accountant. And the evidence will show that Mr. Lucier was not  
4 someone that trusted everything that companies said. Just the  
5 opposite. Mr. Lucier was one of the most cynical men  
6 imaginable when it came to company statements. He was trained  
7 to be cynical. He was trained to look at what companies said  
8 in a variety of contexts and test the proposition.

9 In fact, it's Mr. Lucier's testimony, he believes, that  
10 everybody kind of cuts the edges. It's his testimony that he  
11 thinks there's fraud everywhere, and as an accountant that's  
12 what he thought. It's his testimony that he didn't trust  
13 corporations for what they said but looked into the subject  
14 matter, looked to check whether what they were saying was  
15 accurate. That's what an accountant does, and that's what he  
16 did in his entire professional life.

17 In 1984, Congress amended the warning again. Congress  
18 has drafted all of the warnings. And it put on four rotating  
19 warnings. One of them said that cigarettes contain carbon  
20 monoxide. Another one dealt with the risks of pregnancy. The  
21 other two are here on this board. "Smoking causes lung cancer,  
22 heart disease, emphysema and may complicate pregnancy."

23 Mr. Lucier saw that warning. His brother Philip stopped  
24 smoking the same year. It had no effect on Mr. Lucier.

25 As I said earlier, whatever effect it may have had on his  
26 conscience, it had no effect on his conduct. Indeed, you will  
27 hear Mr. Lucier say that if this warning were on his early  
28 cigarettes it wouldn't have affected his conduct. Because he

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1 wanted to smoke.

2 The warning also said -- the other warning said,  
3 "Quitting smoking now greatly reduces serious risks to  
4 health."

5 And the public was given a great deal of literature in  
6 the papers that Mr. Lucier read and the things that he saw on  
7 TV. And by the way, Mr. Lucier also says that if there were a  
8 smoking and health article in his paper or in Time magazine, as  
9 a smoker he would read it. So he wasn't turning these aside.  
10 He read them.

11 What the Surgeon General was saying in 1984 and what the  
12 American Medical Association was saying was that if you stop  
13 smoking you can greatly reduce your health risks. They

14 continue to say it.

15 Indeed, Richard Doll, plaintiffs' expert, will testify in  
16 this case I believe that if a person stops smoking by the age  
17 of 30, they essentially reduce all the risks that they could  
18 have had from smoking. And even if a person stops smoking at  
19 65, they greatly reduce the risks from smoking.

20 Mr. Lucier had not smoked enough by 1984 for most doctors  
21 to say that his smoking could have been the cause of any later  
22 disease.

23 From Reynolds' stand point, this is very important,  
24 Mr. Lucier has almost no Reynolds smoking history. He was  
25 smoking far less than a pack a day when he was smoking Reynolds  
26 cigarettes and it was over a very short period of time.

27 No one will take the stand to tell you, from either side,  
28 that if Mr. Lucier had just smoked the Reynolds cigarettes, the

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1 Winstons, that it could account for any later illness. Nor I  
2 believe will anyone take the stand to say that this amount of  
3 smoking compared to the rest -- or in addition to the rest had  
4 any significant effect on his health. There just isn't enough  
5 Winston history there to have an effect on his health.

6 Now, Mr. Paul discussed advertising. Here's what the  
7 evidence will show. Mr. Lucier didn't start smoking because he  
8 saw an ad and ran out to get a cigarette. He started smoking  
9 because of what some might call peer pressure. In this case,  
10 sister pressure and because his parents smoked. And he smoked  
11 out of rebellion and a sense of comradery and a sense of  
12 curiosity. And he continued to smoke because he liked it.

13 And he picked his next brand, Winston, not because he  
14 heard a jingle, "Winston tastes good like a cigarette should,"  
15 and I don't think anyone here is making a health suggestion  
16 that in "Winston tastes good like a cigarette should" that this  
17 is somehow a safer brand than another. It's a pure product ad  
18 of the kind made of any consumer product.

19 In any event, he didn't start smoking Winstons for that  
20 reason but because that was his brother David's cigarette and  
21 they were available. And he switched to Winston because he  
22 preferred the taste. And that's his testimony and that's --  
23 that's the reason for it.

24 Now, ladies and gentlemen, the evidence will also show  
25 that before Mr. Lucier was deposed last year at the request of  
26 his own lawyer, Mr. Lucier's lawyers sat him down for six-hour  
27 sessions over a period of two days in which they showed  
28 him advertisements to prepare him for his testimony. Went over

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1 ad -- cigarette ad, over cigarette ad, over cigarette ad. Not  
2 ads that he provided to them, but ads they provided to him to  
3 prepare him to say that advertising had something to do with  
4 his smoking. The evidence will show that advertising had  
5 nothing to do with his smoking.

6 Returning to the time line. In 1985, Mr. Lucier recalls  
7 having seen a specific anti-smoking ad on television, and it's  
8 so dramatic I want to show it to you. Could --

9 MR. PAUL: I have not seen this. Which one are you  
10 talking about?

11 MR. GROSSMAN: Yul Brynner. Yul Brynner.

12 MR. PAUL: Okay. That's fine.

13 MR. GROSSMAN: Clip ten.

14 (Videotape played.)

15 MR. GROSSMAN: The commercial from the grave that  
16 Mr. Lucier remembers even now. Like all the other warnings he

17 received, it had no effect on his smoking. He didn't make an  
18 effort to stop or to cut down. And certainly we don't  
19 criticize him for that. That's not what I'm suggesting. But  
20 he's bringing a suit saying that he wasn't warned. This is  
21 what he remembers having seen.  
22 In 1988, Mr. Lucier's mother died of a stroke. The  
23 family, particular Elouis, the oldest sister who was a nurse,  
24 attributed it to smoking. And it was in that year that his  
25 brother David stopped smoking and his sisters Mary Jane and  
26 Barbara stopped smoking. It was in that year that his brother  
27 started to say to Larry Lucier, "That shit will kill you." And  
28 Larry's constant response was, "Maybe it will, maybe it

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1 won't."

2 Now, when Richard Doll's testimony is played for you,  
3 it's on videotape, I believe that you will hear that Dr. Doll  
4 says that Larry Lucier got it exactly right. No one can say if  
5 you smoke you will get cancer, but rather, maybe you will,  
6 maybe you won't. At a personal level, that's exactly right.  
7 Mr. Lucier understood exactly what the risks were, and they  
8 were risks he was willing to accept.

9 In 1992, Mr. Lucier called his brother-in-law, Elouis'  
10 husband, Gerald Ondash, and asked for a patch. It was the  
11 first time he had ever considered in any way stopping smoking.

12 Your Honor, you asked for a break around 10:00 o'clock.  
13 This would be a good time.

14 THE COURT: We'll take a ten-minute recess now. Remember  
15 not to discuss the case. Ten minutes.

16 (Recess.)

17 THE COURT: Please bring the jury in.

18 THE COURT ATTENDANT: Remain seated and come to order.  
19 Court is again in session.

20 THE COURT: Okay. Mr. Grossman.

21 MR. GROSSMAN: Thank you very much, your Honor.

22 Hi again.

23 On the question of whether Mr. Lucier was warned about  
24 the conducts that he engaged in, whether he was somehow  
25 defrauded into believing that cigarettes were safe, you will  
26 hear a great deal of testimony from Mr. Lucier about everything  
27 that he knew, about all of the risks in his life and the way he  
28 responded to them. And you will learn about his attitude

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1 toward risk generally, perhaps best demonstrated by this  
2 conversation noted on the slide.

3 Could we have please slide number 18.

4 When Mr. Lucier went to the hospital for his brain  
5 metastasis in January of 2000, he wanted to go take a shower.  
6 He had a risk of seizures. He could die in the shower. And  
7 the nurse told him that. She said, as you'll see in the  
8 nurse's notes as part of his medical records, "Patient states  
9 he needs to be showering. Not aggressive, just stubborn. Not  
10 good decision-making."

11 And then the nurse instructed the patient about the risks  
12 of seizure if he decided to take a shower. Fair enough. Let  
13 it up to him to decide whether to take the shower, and he said  
14 he had done well in life by risking it. And she underscored it  
15 and put an exclamation at the end.

16 Thank you very much.

17 Mr. Lucier was ready to take risks with a variety of his  
18 conducts. It was not that he did not know the risks involved.  
19 When plaintiffs say that he would not take a risk, the facts

20 will be otherwise. Consider that Mr. Lucier simply didn't take  
21 responsibility for his decisions.  
22 Let me play you a portion of Mr. Lucier's sworn  
23 testimony.  
24 I'd like clips six and seven, please.  
25 You can draw your own conclusions.  
26 (Videotape played.)  
27 MR. GROSSMAN: Throughout jury selection and throughout  
28 the opening Mr. Paul told you this case is about personal

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1 responsibility. It is.

2 Let's turn to the question of addiction. The first time  
3 Mr. Lucier ever attempted, or says he ever attempted, to stop  
4 smoking is in 1992. He called his brother-in-law, Gerald  
5 Ondash, and asked him for a patch which then was available only  
6 by prescription.

7 You'll learn that the effort, such as it was, was  
8 halfhearted at best. He wore the patch for a little while but  
9 continued to smoke. Never threw away his cigarettes, never  
10 threw away his matches, never threw away anything. Just smoked  
11 a little less for a period of time while he wore the patch and  
12 then he threw away the patches.

13 A couple of other times he went to hypnotists. He didn't  
14 throw out the cigarettes before he went in to the hypnotists.  
15 And, in fact, he lit up a cigarette in the car when he came  
16 out. He was hoping the hypnotists would hypnotize him into  
17 deciding that he didn't want to smoke, but the problem is he  
18 never decided that he didn't want to smoke.

19 In fact, you will learn that such efforts as Mr. Lucier  
20 made to stop smoking were halfhearted at best, because he never  
21 had any intention of changing his conduct, just as he never had  
22 any intention really changing his conduct with regard to  
23 high-fat foods or lack of exercise or anything else.

24 He could have stopped, just as his father did, just as  
25 his brothers did, just as his sisters did, just as 50 million  
26 Americans stop. More than half of every American who ever was  
27 a regular smoker has stopped permanently. The evidence will  
28 show that. The Surgeon General says that. Sir Richard Doll

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1 says that too, plaintiffs' expert.

2 Indeed, the evidence will show that some people stop  
3 without much difficulty, some find it hard, and some find it  
4 very hard. Some people -- and this has been known for at least  
5 a century -- some people who stop smoking get small --  
6 relatively small physical symptoms. They can get a little bit  
7 of an upset stomach. Some people can get a headache. Some  
8 people can have trouble with sleeping. That lasts no -- no  
9 more than two or three weeks because by then any nicotine in  
10 the body is out. All nicotine is flushed out.

11 Mr. Lucier whenever he stopped smoking, and there was  
12 only really one time when he stopped before he was ill  
13 entirely, and that was the seven-month period, or when he cut  
14 down to two or three cigarettes six months before he was  
15 diagnosed with cancer, he never had any physical symptoms. He  
16 reports he never had any physical symptoms. He wanted a  
17 cigarette, but he never had any physical symptoms.

18 Nor when he made his -- his purported efforts to stop in  
19 the 1990s did he stop for any appreciable period of time. He  
20 cut down to two or three cigarettes in the months before he was  
21 diagnosed with cancer. But as far as stopping was concerned,  
22 he never stopped for more than a few hours.



23 Now, this was not a man who was a three-pack-a-day  
24 smoker. He will tell you that he smoked one pack a day  
25 continuously. And by the way, he didn't go up when he went  
26 from Marlboro to Merit. He kept it at the same level from  
27 Marlboro to Merit. He will say that he smoked one pack a day  
28 continuously in his adult life. And he would go hours at times

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1 without cigarettes normally, normally, without any effort to  
2 stop.

3 Now, the experts who the plaintiffs call -- Dr. Benowitz  
4 who you heard Mr. Paul refer to -- say that an effort to stop  
5 smoking, a bona fide effort, a real effort to stop smoking  
6 means you have to stop at least a day. They don't even count  
7 it as an attempt to stop smoking if you don't stop for at least  
8 a day.

9 Mr. Lucier by the plaintiffs' expert's own definition  
10 never made a real effort to stop smoking before he was sick.  
11 Not once. And the reason is simple, because he didn't want  
12 to. And that's all right, but he doesn't take responsibility  
13 for it.

14 Ladies and gentlemen, some people just don't want to give  
15 up what they enjoy. Just as some people who are overweight  
16 know that their health might be better if they lost weight but  
17 they don't want to diet. And that's all right, but it's a  
18 matter of personal responsibility, as Mr. Paul told you.

19 Now, let me turn briefly to the question of how to  
20 describe the question of whether cigarettes are a habit or an  
21 addiction or a dependency. It's been known for a hundred years  
22 or more that people who smoke often find it very hard to stop.  
23 We've probably all heard Mark Twain's line from a hundred years  
24 ago, "Giving up smoking is the easiest thing in the world.  
25 I've done it a thousand times." There's nothing new about  
26 that, nor is there anything new about the idea that nicotine is  
27 reinforcing and that people often smoke for nicotine. That  
28 plays a substantial role, not the only role, in why people

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1 smoke. That's been known forever.

2 The name to be given to that varies with the definitions  
3 and kinds of terms that different scientists use. In popular  
4 terms we -- we say a lot of things are addictive. We may say  
5 that we're addicted to running. We may say -- we talk about  
6 people with a gambling addiction, which can be a huge  
7 compulsion in a person's life. We also talk about heroin  
8 addiction or alcohol addiction.

9 It's fine to use the term "addiction" in that broad sense  
10 for very many things, but we should understand, the evidence  
11 will show, that there's a very substantial difference between  
12 smoking conduct and heroin or alcohol -- or alcoholism.

13 The -- a person who smokes, as I said, may get some mild  
14 stomach discomfort and headaches and even lack of concentration  
15 to a very small extent for a short period of time after they  
16 give up cigarettes. But people who -- who are alcoholics can  
17 get the DTs, they get hallucinations, they run a high fever,  
18 and without medical treatment they're likely to die from the  
19 DTs themselves, from the -- from just coming out of the  
20 alcoholism.

21 Another thing that makes alcoholism or heroin different  
22 is that it's intoxicating. People lose their sense of  
23 judgment. Their maturity is arrested. They lose their  
24 judgment entirely. And it doesn't just apply to the use of  
25 that product but generally. There's nothing like that with

26 cigarettes or tobacco. No one suggests there is.  
27 Now, the World Health Organization and the American  
28 Psychiatric Association use the term "addictive" to apply only  
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1 to conduct such as heroin addiction or alcoholism or morphine  
2 or other opiates where the product is intoxicating and where  
3 the withdrawal symptoms are so severe.  
4 They refer to cigarettes as something that creates a  
5 dependency. The Surgeon General in 1964 looking at the  
6 evidence, which was the same then as now, said that cigarettes  
7 were a habit, although a strong habit. In England they say  
8 it's a habit of addiction.  
9 The term that you use doesn't make any difference. I'm  
10 just as happy with "addiction" as "dependency" or "habit" as  
11 long as everyone understands it's the facts that matter, not  
12 the name that's given to it.  
13 And let me say also as to the role of addiction or  
14 dependency or habit in this case, there's no claim for  
15 addiction as such. The plaintiffs are not claiming -- are not  
16 seeking money on the ground alone that Mr. Lucier was addicted  
17 or dependent on cigarettes. They were offering it as a way  
18 of --  
19 MR. PAUL: Your Honor, I'm going to object to -- well, I  
20 just object to representation of what's being claimed in the  
21 case. That's obviously a legal issue.  
22 THE COURT: Sustained.  
23 MR. PAUL: Thank you.  
24 THE COURT: Proceed.  
25 MR. GROSSMAN: Ladies and gentlemen, the evidence will  
26 show that Mr. Lucier smoked because he wanted to, he smoked  
27 when he wanted to, in the amounts that he wanted to. He liked  
28 the taste of cigarettes. He liked the feeling that he was  
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1 withdrawn from the world, a sense of detachment when he smoked  
2 cigarettes. He liked the feel of it in his hand. He'll tell  
3 you all of those things. He smoked because he wanted to, and  
4 he continued to smoke because he wanted to.  
5 Now, I told you that I would save to the end the  
6 question of Mr. Lucier's medical condition. I told you I'd  
7 build up to it. And we're there now.  
8 Obviously, if Mr. Lucier did not have lung cancer caused  
9 by smoking then the plaintiffs can't get to first base. And  
10 the evidence will show that Mr. Lucier did not have lung cancer  
11 caused by smoking Winstons. And although I don't represent  
12 them, the evidence will show that Mr. Lucier did not have lung  
13 cancer caused by his smoking the Merits and other Philip Morris  
14 cigarettes, the Marlboros that he smoked. The evidence will  
15 show that conclusively. And the plaintiffs will not be able to  
16 meet their burden that Mr. Lucier had lung cancer caused by  
17 smoking.  
18 As I enter into this topic, let me just state a couple of  
19 things. Cancer is the name that we give not to one disease but  
20 to many diseases. And to doctors and scientists those diseases  
21 have different names broken down into many, many subcategories.  
22 All of them have one thing in common. The DNA in a cell, the  
23 signature of the cell, the composition of the cell switches  
24 somehow. And then the cell, then it expands and takes over  
25 other cells next to it. And all of these are diseases that can  
26 spread, spread from one organ to another in the body.  
27 You'll hear about primary science and metastases in this  
28 case. Cancer is called by the name of the organ where it

1 starts. If cancer starts in the kidney and then metastasizes  
2 to the lung, it's still kidney cancer. It's not lung cancer.  
3 Kidney cancer with a metastasis. If it's start in the lung and  
4 goes to the brain, it's not brain cancer. It's lung cancer  
5 that's spread to the brain.

6 And the risks for the kinds of cancer that one talks  
7 about come from the primary site. One refers to lung cancer as  
8 one of the risks of smoking. There are other risks as you'll  
9 hear, including diet. Diet is a major risk factor for lung  
10 cancer, as Sir Richard Doll will tell you. That's why in Japan  
11 the people have so much lower lung cancer rates even though  
12 they have higher smoking rates.

13 Dr. Doll's testimony will not be that charcoal filters --  
14 which by the way have been available in America for many  
15 years -- have anything to do that with. Charcoal filters  
16 reduce a certain part of the gas concentration in cigarettes.  
17 It's called phenols. That's reduced in other ways as well by  
18 cigarette -- by cigarette designs. But the epidemiological  
19 evidence shows no relationship between charcoal filters and  
20 lower health risks.

21 What does show a tremendous relationship is a diet that's  
22 high in fish, high in vegetables and low in animal fats and  
23 margarine and butter and other saturated fats, as you will hear  
24 from Dr. Doll and others.

25 In any event, when cancer spreads it's the primary organ  
26 that one looks to to determine the risk factors. And as you'll  
27 also hear, while one can say that, for example, smoking is a  
28 risk for lung cancer, certain kinds of lung cancer, because

1 there are many different diseases, no one can say -- and one  
2 can say that there's a greater number of smokers who have those  
3 kinds of lung cancer than non-smokers.

4 Dr. Doll, again, will tell you that no one can say that a  
5 particular individual's lung cancer was caused by smoking or  
6 any other exposure. Because looking at that particular  
7 individual's cancer under a microscope, no one can tell what  
8 caused it of all of the possible things. On an individual  
9 basis the statistics can't apply. But you won't even have to  
10 reach that in this case.

11 In fact, the question of whether there was a cancer in  
12 the lung and it started in the lung or started in another organ  
13 you won't even have to reach in this case. Normally the first  
14 thing that you do when you find cancer in the lung is to  
15 determine if it started there or if it spread from another  
16 organ like the stomach or the kidney or the pancreas. But you  
17 won't have to do that in this case.

18 What I tell you in this opening is a promise. It's a  
19 contract. And in closing I will tell you again the same things  
20 I'm telling you now. Now I'm saying what we're going to prove,  
21 and in closing I'll say this is what we proved. And you have a  
22 right to ask yourself are we proving what we said. You have  
23 the same right to ask that of Mr. Paul, of the plaintiffs.

24 Let me write on a board -- this is the how many lawyers  
25 does it take again -- some things about Mr. Lucier's medical  
26 condition that we will prove in this case. When I say we will  
27 prove it, plaintiffs have the burden. They will not prove it.

28 MR. PAUL: Your Honor, may I move around to see what is

1 being written?

2 THE COURT: Please.  
3 MR. PAUL: Thank you.  
4 MR. GORDON: Push it back a little.  
5 MR. GROSSMAN: Wait until I'm ready.  
6 No cancer cells have ever been found in Mr. Lucier's  
7 lung. Never. Mr. Lucier was diagnosed with cancer. It was a  
8 pathological finding that he had cancer. But let me explain  
9 how that was arrived at and where those cells came from.  
10 Mr. Lucier in 1999 had pain in his flank, and he had a  
11 history of night sweats and fevers and he went to the doctor.  
12 And they had a number of what's referred to as differential  
13 diagnoses, a number of different hypotheses to explore.  
14 They did a CAT scan that showed that in the middle of the  
15 chest there were shadows. Could be an infection, could be  
16 cancer. They needed to probe to find out.  
17 So the first thing they did was they did what's called a  
18 bronchoscopy. That's a procedure in which they put a little  
19 tube down the nose, all the way down into the lungs. And they  
20 looked in the lungs for something to snip that looks like it  
21 might be a lesion, might be a tumor, might be cancerous.  
22 The pulmonologist who did the bronchoscopy found nothing  
23 to snip. In fact, he didn't find any smoking-related damage of  
24 any kind whatsoever. Often in lungs that don't have cancer  
25 there are little changes that can occur from long-term exposure  
26 to smoke, or believe to occur from long-term exposure to smoke,  
27 like metaplasia and hyperplasia. There's nothing like that in  
28 this case. They didn't find any smoking-related injury to the  
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1 lung whatsoever, and they didn't find any tumor in the lung  
2 whatsoever. So then they performed another procedure.  
3 And if I could please have slide 16. Can you see that,  
4 everyone, past this? No?  
5 (Pause.)  
6 MR. GROSSMAN: The lungs on the body are over here. Left  
7 and right side. In between there's a bunch of other things.  
8 There's the heart and a little organ called the thymus, and  
9 there are lots of blood vessels and lymph nodes and lymph  
10 systems. That area in between the lungs is called the  
11 mediastinum which contains the heart.  
12 What -- what they did next was they performed a procedure  
13 to look at Mr. Lucier's mediastinum because it appeared that  
14 there might be growths around here in the pretracheal nodes,  
15 and also in this part of the mediastinum that's next to the  
16 lung but not in the lung which is called the hilar node.  
17 They're called the hilar node. These nodes over here.  
18 And they cut a little hole in Mr. Lucier's neck and they  
19 took a scope that went down into the mediastinum, not into the  
20 lungs, and from the pretracheal nodes, which are over here,  
21 they pulled up what was found to be cancerous tissue.  
22 Now, I told you there are many different kinds of  
23 cancer. The kind that they pulled up, the pathologist in the  
24 hospital referred to as large cell cancer, large cell  
25 carcinoma. But all of the experts in this case will tell you  
26 it's a kind called adenocarcinoma.  
27 "Adenocarcinoma" is an important term in this case. It's  
28 the kind -- it's a kind of cancer that can arise in many organs  
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1 of the body, almost every organ below the neck. It can arise  
2 in the kidney. It can arise in the pancreas. It can arise in  
3 the breast. It can arise in the stomach, in the small  
4 intestine, in the large intestine and other organs as well.

5 It's the kind of cancer that can start almost anywhere below  
6 the neck. And they found it in the mediastinum.

7 No one has ever found cancer in Mr. Lucier's lung. No  
8 one has ever taken a cancerous tissue from his lung. No one  
9 has ever biopsied tissue from his lung that was found to be --  
10 to have any cancer cells whatsoever.

11 Indeed, a few months after Mr. Lucier was -- was ill they  
12 not only had performed this bronchoscopy earlier but they  
13 performed a procedure called a transdermal needle biopsy where  
14 they take a needle and they go through the chest and they take  
15 some material out of the lung. And that also contained no  
16 cancerous cells. Nothing ever diagnosed as cancer.

17 And it will be uncontested in this case that no one has  
18 ever taken a cancerous cell, no one has ever found a cancerous  
19 cell in Mr. Lucier's lung. None has ever been biopsied. No  
20 pathologist has ever found any cancerous cell in Mr. Lucier's  
21 lung.

22 And what happened was, although they found in the  
23 hospital in Santa Rosa, although they found the cancerous cells  
24 in the mediastinum, which they knew were metastatic, they  
25 didn't look for where the primary was. Clearly whatever cancer  
26 Mr. Lucier had had spread. And they presumed that because this  
27 area is close to the lung and because he was a smoker,  
28 presumably he had lung cancer.

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1 The doctor who made the diagnosis was a pulmonologist, a  
2 lung doctor, named Dr. Mehta. Dr. Mehta will tell you in this  
3 case, either live or by deposition, that he did not rule out  
4 cancer in other sites; that there is a good possibility in his  
5 mind that the cancer could have arisen in other sites but it  
6 didn't make any difference because he was going to give  
7 Mr. Lucier the same treatment.

8 In fact, in light of a number of other factors, including  
9 Mr. Lucier's survival and the way he's responded to treatment,  
10 Dr. Mehta now says that if he had -- if he looked back on the  
11 case again he's not sure he would diagnosis lung cancer even  
12 though he is the doctor who diagnosed it; that he would  
13 probably call it cancer of unknown primary site, which is a  
14 standard diagnosis, or perhaps cancer of unknown primary site  
15 with a likelihood of lung cancer. That's as far as he'd go  
16 now, and he's the doctor who made the call.

17 All right. Number two. I'll move -- I'll do it over  
18 there. The facts will show Mr. Lucier's symptoms were not  
19 consistent with lung cancer.

20 When Mr. Lucier went to the hospital to the emergency  
21 room in 1999 he didn't have any of the symptoms that are  
22 normally associated with lung cancer. He didn't have shortness  
23 of breath. He wasn't coughing up any blood. He didn't have a  
24 history of a cough even. He had no pulmonary, no lung symptoms  
25 whatsoever. What he had was not -- not blood in his sputum, in  
26 his phlegm from his lungs, but blood in his urine. What he had  
27 was a history of fever and night sweats. What he had was pain  
28 in the side from -- actually from the spleen.

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1 They also found when they did the CAT scan that there  
2 were little dots in his kidneys, dots that were never explored  
3 because they decided they didn't have to. They were going to  
4 treat him with chemotherapy which works on the whole body  
5 except for two places; it doesn't work on the brain and it  
6 doesn't work on the sexual organs. But chemotherapy goes  
7 throughout the body otherwise and would treat the cancer

8 otherwise.

9       Although they didn't believe that they could cure him,  
10 they gave him what they thought was palliation, something to  
11 make his next few months better. Because they presumed it was  
12 lung cancer, and if it were lung cancer it likely would kill  
13 him very fast.

14       Three. Mr. Lucier's response to chemotherapy was not  
15 consistent with lung cancer.

16       One problem with lung cancer is that if it's spread, if  
17 it's metastasized outside the lung, it's always incurable and  
18 people die very, very rapidly.

19       Mr. Lucier's cancer from wherever it started had spread  
20 outside the lung into the mediastinum. That's where it was  
21 found, the only place it was found until he later had a  
22 metastasis to the brain.

23       Mr. Lucier was given chemotherapy and remarkably -- this  
24 is three-and-a-half years ago -- remarkably he has never had a  
25 recurrence of any cancer in any part of his body other than the  
26 brain in the three-and-a-half years since.

27       Now, remember, the chemotherapy doesn't get to the  
28 brain. So whatever was in the brain was something that had

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1       been growing for a while and the chemotherapy couldn't treat.

2       A year and a half after the diagnosis of lung cancer  
3 Mr. Lucier had a -- had a seizure. They found a small  
4 metastasis, a small growth in his brain. They removed it and  
5 they radiated the area. He has been well since. He is looked  
6 at regularly in which he's given a variety of tests to find any  
7 cancer in his body. None has been found.

8       It has been three-and-a-half years. Mr. Lucier has not  
9 had any recurrence of cancer anywhere in his body other than  
10 the brain. And that one metastasis in the brain was solitary,  
11 has gone away and has not returned.

12       Now, that doesn't mean that he's out of the woods. No  
13 one's saying that. Cancer is a mysterious disease. But it  
14 looks good. Every day it looks better. His situation is  
15 guarded, but for now he's in complete remission, and the longer  
16 he's in remission the better off he is.

17       And, ladies and gentlemen, if this were lung cancer this  
18 would be nearly a miracle. This doesn't happen with lung  
19 cancer. It doesn't happen with lung cancer that has spread  
20 this far, goes away with chemotherapy. There was no surgery to  
21 the chest or anything like that. It just doesn't go away that  
22 way.

23       Four. The cells found in Mr. Lucier's mediastinum were  
24 not consistent with lung cancer. It's another promise.

25       Adenocarcinoma as I told you and the evidence will show  
26 is a kind of cancer, a very common kind of cancer. And  
27 whenever adenocarcinoma of any kind is found in the lung the  
28 first question is, Is it lung cancer or did it come from some

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1       other site? The lung is the most favorite site for cancer to  
2 travel to because all the blood goes through the lung.

3       Here, the adenocarcinoma was of a very specific type.  
4 There are four types as you may hear of adenocarcinoma; one is  
5 called papillary; one is called acinar; one's called  
6 bronchioloalveolar.

7       This kind of adenocarcinoma has a very distinct  
8 appearance under the microscope. It looks like a signet ring.  
9 The cells look -- have lots and lots of liquid in them and then  
10 they've got like an eye, a big eye, and a very distinctive

11 appearance to a pathologist. Both the plaintiffs' expert  
12 pathologist and ours say that these were signet ring cells.  
13 Now, until only about ten years ago it was believe that  
14 signet ring adenocarcinoma could never start in the lung.  
15 Whenever you found signet ring carcinoma you looked primarily  
16 to the colon or to the stomach to find the primary, because  
17 that's where it normally comes from, or sometimes the breast or  
18 sometimes the pancreas or certain other organs.  
19 It almost never starts there. It is incredibly rare.  
20 It's now known that signet ring cancer can start in the lung,  
21 but it is incredibly rare. There are only a few hundred cases  
22 of it a year in the United States. It's much more rare than  
23 say male breast cancer. It is an extraordinarily rare  
24 disease. The likelihood of it -- when one finds signet rings,  
25 the likelihood that the cancer started in the lung is almost  
26 zero.  
27 What were found were signet rings, and everyone agrees on  
28 that. But no one explored the other organs of Mr. Lucier to  
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1 find out where the cancer may have started because it didn't  
2 make any difference, they were going to give him the same  
3 treatment. And now that he's had chemotherapy no one can  
4 explore them because he's well.  
5 But these kinds of cells were not identified by his  
6 pathologists in Santa Rosa but have been by the expert  
7 pathologists by both the plaintiffs and defendants in this case  
8 and are not consistent with lung cancer.  
9 Five, and last. Plaintiffs' expert ran a test for lung  
10 cancer and it was negative.  
11 Plaintiffs' expert pathologist took some of the cells  
12 from the mediastinum that have been preserved and ran a special  
13 stain on them, a special test called thyroid transcription  
14 factor one, TTF1. In adenocarcinoma of the lung -- a great  
15 majority of adenocarcinoma of the lung will test positive for  
16 this, a great majority. Cancers from other sites almost never  
17 test positive, only the thyroid and the lung.  
18 Plaintiffs' expert tested for it after this case was  
19 brought in order -- in an attempt to prove that this case was  
20 lung cancer rather than cancer from another organ. The test  
21 was negative. The test indicated in all likelihood that this  
22 is cancer that started someplace else.  
23 So there we have it. No one has ever found cancer in his  
24 lung. His symptoms were inconsistent with it; his recovery has  
25 been inconsistent with it; the type of cell was inconsistent  
26 with lung cancer; and the test that the plaintiffs themselves  
27 ran was inconsistent with lung cancer.  
28 I can tell you that no one knows which organ Mr. Lucier's  
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1 cancer came from. And that's very common. There is a term  
2 used by doctors "cancer of unknown primary site." Even after  
3 autopsy in a large percentage of cancer cases they can't find  
4 the primary. Here, there was no effort to find the primary.  
5 Finally, a what if. What if this was lung cancer, which  
6 the evidence will show the plaintiffs can't possibly prove. If  
7 this was lung cancer, signet ring lung cancer in the -- signet  
8 ring adenocarcinoma of the lung has no relationship to smoking  
9 whatsoever. If signet ring cancer starts in the lung, it's  
10 found to be just as common in non-smokers as smokers. It's not  
11 like small cell or squamous cell which are much more common in  
12 smokers. It's a kind that happens as much in smokers and  
13 non-smokers. There is no relationship between Mr. Lucier's

14 illness, whatever it is, and his smoking.  
15 So here we have a man who has smoked all his life with  
16 warnings on the pack, who understood the risks involved, saw  
17 all the risks involved, decided to smoke nonetheless, took no  
18 responsibility for it, got sick. His sickness had nothing to  
19 do with smoking and that's the lawsuit before you.  
20 Mr. Paul told you that this case is about a number of  
21 things. Above all he kept telling you this case is about  
22 personal responsibility. And on that I'll leave the last word  
23 with Mr. Lucier.  
24 Can we have clip eight.  
25 (Videotape played.)  
26 MR. GROSSMAN: I look forward to presenting this case to  
27 you. I think it's going to be very enjoyable. And I look  
28 forward to arguing at the end of this case what the evidence

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1 has shown and to showing that we have kept the promises made  
2 here today.

3 Thank you very much.

4 THE COURT: We'll take a ten-minute recess now. Please  
5 don't discuss the case.

6 (Recess.)

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2 (NOTHING OMITTED.)

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1 FRIDAY, NOVEMBER 8, 2002  
2 (Morning Session Continued)  
3 ---o0o---  
4 THE COURT: Okay, ready?  
5 Bring the jury in, please.  
6 THE COURT: You folks can be seated; we're missing a  
7 couple.  
8 (The jurors are brought in at 11:15 am.)  
9 THE COURT: Okay, Mr. Barron.  
10 MR. BARRON: Thank you, your Honor.  
11 ---o0o---  
12 MR. BARRON: Good morning, everyone.  
13 (All say "good morning".)  
14 MR. BARRON: And good morning to your Honor, and  
15 staff. And good morning to counsel for Co-Defendants R.J.  
16 Reynolds.  
17 And good morning to opposing counsel, Mr. Paul.  
18 MR. PAUL: Good morning, Mr. Barron.  
19 How are you?  
20 MR. BARRON: And good morning to the rest of you.  
21 Not quite as many as there were yesterday. I think  
22 we've even lost the cameras, which is okay with me. And  
23 here I am, just rushing towards the lunch hour. And we  
24 don't talk to you and you talk to us, and we don't talk to  
25 you.  
26 And I overheard someone say it's really hot in here,  
27 right before the lunch hour. And I appreciate your  
28 indulgence to try to summarize a few things to you about the  
2701  
1 case as I see it.  
2 Before I do that, I want to introduce myself to you  
3 again. I'm Jerry Barron; I represent one of the defendants,  
4 Philip Morris Incorporated.  
5 Also, I have co-counsel, my partner, Miss Fey, who  
6 represents Philip Morris, and occasionally you'll see some  
7 people assisting. I had a young lawyer helping here for  
8 awhile, her name is Sarah Gates.  
9 Is she here?  
10 There she is.  
11 And there are others in here, and you'll see a young  
12 lady, Consuelo Gutierrez. She's an analyst, and sometimes  
13 you'll see her helping, with documents and such things.  
14 And speaking of Miss Fey, there have been some  
15 questions asked of me, not, of course by jurors, which have  
16 led to some suggestions that you end any further guessing or  
17 speculation: Yes, Miss Fey and her husband are expecting a  
18 child.  
19 The reason I say this is, she's expecting -- They  
20 are expecting the first part of February.

21 She has been on this case a long time, long time  
22 before she became pregnant. She wishes to remain on the  
23 case for the trial. She has spoken to her doctor and her  
24 husband, and they say that's fine. And I'm happy to have  
25 her, if that's fine, with one proviso: The deadline for her  
26 leaving, by her husband and doctor, is December 13th.  
27 Whether we finish that day or not, that's the Friday before  
28 our last day, December 20, you'll remember. But we hope  
2702

1 that we have concluded, and, if not, she'll just be  
2 departing.

3 She'll have a roll to play in the case. She'll be  
4 dealing with the witnesses, which she'll actually put on,  
5 assuming we get it done in time, the key scientist witness  
6 from Philip Morris, who will explain some things that I will  
7 talk about later this morning.

8 So with that introduction, I guess the question is:  
9 Where do we go from here? What is this case about? And  
10 you've heard a lot about it already. And, of course, I am  
11 going to do my very best to avoid repeating anything.

12 And I thank you, Mr. Grossman, for doing such a fine  
13 job of explaining things.

14 And so you will see that there will be whole areas  
15 that I will not address at all, because there isn't any need  
16 to try to duplicate it.

17 But, when you look at a case like this, I guess --  
18 It's worthwhile, maybe in the beginning -- And throughout  
19 the case and the end -- To ask yourself, what are the  
20 essential questions? What are the essential issues?

21 And you've heard a lot of issues discussed, and, of  
22 course, some of them are essential. I'm not indicating that  
23 they're not.

24 But how do you put this together? And I would say  
25 that the most essential issue in the end, what Mr. Grossman,  
26 I think, mentioned at the end of his presentation, which is:  
27 Why is it -- What will be the evidence that supports this,  
28 that Mr. Lucier, one out of literally 100-million-plus

2703

1 smokers in the last 50 years in the United States, feels  
2 that he has a personal case and can step forward and seek  
3 what counsel says is a substantial amount of money for his  
4 decision to choose to smoke for 30-plus years?

5 The central question is: Is this individual smoker  
6 entitled to substantial amounts of money for that decision,  
7 that choice? And that is the heart of the case.

8 So how is he trying to do that? He's trying to do  
9 that through complaints -- Sort of a sophisticated lawyer's  
10 word for what? You know, complaints, allegations.

11 He is trying to convince you, through some legal  
12 rules, that his Honor will describe at the end, which you'll  
13 decide the facts on -- He's trying to convince you that he  
14 is entitled to an award of money -- Because he has  
15 demonstrated through the evidence each element -- And there  
16 are many elements -- That in essence are like the planks of  
17 a bridge, that allow him to go from where he is now, like so  
18 many other American smokers, to somehow cross over to the  
19 point through these planks of a bridge, to the point where  
20 he comes out of those 100-million-plus and gets what counsel  
21 says is a substantial amount. And someday he'll tell you  
22 what that is, of course, that he's seeking.

23 But again, Mr. Lucier's case is called a personal-  
24 injury case. That -- I'll describe it, as you open up the  
25 law books -- It is obviously personal to him. And so what

26 is he saying as to why he, this single person, should be  
27 entitled to that?

28 Here is what he's really saying, not in fancy legal  
2704

1 words. And we'll get to a lot, and you'll hear some long  
2 instruction on the issues. But -- In as common-sense set  
3 of words I can use, that I think is fair, let's see what it  
4 is that he's actually saying.

5 What he's saying is, is that I'm entitled to this  
6 substantial amount of money, because, number one, I have  
7 cancer.

8 You did not hear Mr. Grossman dispute that, nor will  
9 you hear I dispute that.

10 But he says something next: I'm entitled to the  
11 substantial amount of money because I claim -- I claim that  
12 my cancer is lung cancer.

13 And you heard Mr. Grossman spend some time with you  
14 just a few moments ago explaining what the evidence showed  
15 about that issue and that claim. And I will not go into  
16 that.

17 But he said something else. He says, third, my lung  
18 cancer that I'm claiming I have is caused by smoking.

19 Another way to put it is: It's caused by smoking.  
20 And you'll hear this word "cause" used a lot throughout the  
21 trial.

22 And his Honor will define it, I think, maybe at the  
23 end of the case.

24 But he says more. He says: Because it's from my  
25 smoking -- And I was smoking for 30 years, 30-plus years,  
26 he says -- Can you see this? I'm sorry, I didn't ask.

27 A JUROR: It's okay.

28 MR. BARRON: That doesn't look like something that  
2705

1 separates him out from 100 million people who smoke, who if  
2 they ever got a smoking disease that they thought was a  
3 smoking disease, to step forward.

4 So he says something else. He says this. He says:  
5 Because -- I claim, or I'm entitled to substantial money  
6 because I was made to smoke -- I was caused to smoke by  
7 what?

8 Not just that it was available, because at one point  
9 it was a brand that R.J. Reynolds had that he smoked; not  
10 just because later it was a brand that Philip Morris had  
11 available, Marlboros and then Merit.

12 What he says is, is that because -- I was made to  
13 smoke because of fault, or because there was something  
14 defective with the cigarette.

15 And see, it's the fault of the defendant, he's  
16 saying, in trying to build the planks of this bridge, it's  
17 something they didn't do that they were supposed to do,  
18 something that they did that they shouldn't have done.  
19 There was something defective about the product, not just  
20 that it's a cigarette. There's something defective about  
21 it.

22 Now, I know we've discussed this, but it's important.

23 Whether you like tobacco companies or whether you  
24 like particular ones or not, be it R.J. Reynolds or Philip  
25 Morris, is not the issue of the case.

26 Whether you like to smoke or don't like to smoke is  
27 not an issue in the case.

28 Whether you think that there should be more

2706

1 government regulation or less government regulation

2 controlling smoking is not an issue in the case.  
3       You must actually ultimately ask yourself: The issue  
4 is, we're here to determine in essence: Was this chain of  
5 events something that entitled -- Because each one of the  
6 planks is shown -- This individual smoker to be awarded  
7 substantial amounts of money  
8       Well, let's ask ourselves: Why did Mr. Lucier smoke?  
9 But before we do that, it's worthwhile to ask the question,  
10 why does anyone smoke? Why do people smoke?  
11       And, you know something, even today with all of in  
12 information available, and this information coming from the  
13 Center for Disease Control that tracks smoking because it  
14 wants to track health issues, we know that today and in  
15 other days, 1200 or so Americans will begin to smoke who  
16 haven't smoked. Why do they do that if there are any  
17 potential health consequences?  
18       A significant reason is nicotine. And you may be  
19 saying, "My God, he's saying that? He's using the 'N'  
20 word?"  
21       I am. I am.  
22       Let's explore what I think is the often misunderstood  
23 compound called nicotine. Let's try to demystify the 'N'  
24 word if we can. Okay?  
25       In order to do that, we need to go back a little bit  
26 to some basics about cigarette, when it is lit and smoked  
27 and, then is made. And I don't want to spend a lot of time  
28 on it now because I will come back to it. But, when one  
2707  
1 takes tobacco, which is a vegetable matter, and you put it  
2 in paper and you light it, you create smoke.  
3       And you do so -- There's a fancy word for it when  
4 you burn it; it's called pyrolysis, P-Y-R-O-L- -- Can't do  
5 it right off the head; I'll have to write it out --  
6 -S-I-S -- I'll get it for you. I don't want to take the  
7 time.  
8       And what happens is that in the smoke is a gas  
9 component, sometimes called a gas phase, and the gas phase  
10 really is what's called oxidizing gases.  
11       There is also what's called a solid part of the smoke  
12 or solid phase, and that's called by scientists -- Got to  
13 use the fancy word -- Particulates.  
14       Thank you, appreciate it.  
15       Gases and particulates. Otherwise known as solid.  
16 These are the oxidizing gasses.  
17       Well, what's particulates? What's solid?  
18       Scientists think of it in kind of three broad  
19 categories. First of all, water. Good old H<sub>2</sub>O.  
20       Next is what's called tar. You've heard some  
21 description about that.  
22       And tar is kind of a global term for a lot of the  
23 chemical compounds that are solids.  
24       But something else is also there; it's called  
25 alkaloids.  
26       And that is another way of saying the 'N' word,  
27 nicotine.  
28       Now, let me demystify this, if I can for you. And  
2708  
1 scientists have known this for a long time.  
2       Nicotine does not carry the health consequences of  
3 the magnitude that the tars do or other things do, so we  
4 think. No one knows for sure exactly -- Mr. Grossman said  
5 it's the cause of cancer, but people think that it's the  
6 compound in the tar.

7 No one's indicting, even the plaintiff's expert,  
8 nicotine as causing lung cancer or emphysema in the sense of  
9 the chemical compound doing something to the tissue.

10 So, what does nicotine do? It's found in other  
11 products, but it's found in tobacco and in greater  
12 quantities, Mr. Grossman said.

13 If people smoke partly for nicotine, why are they  
14 doing that? There are a lots of reasons, and this actually  
15 comes from plaintiff's expert that may even be his first  
16 expert.

17 What we learn is the following:

18 There -- There are all sorts of things that happen  
19 to chemicals. When we eat, of course, food is broken down  
20 into chemicals. We're all just chemicals, if you think  
21 about it. We're all part of the universe; we're all part of  
22 the stars. But what happens is, nicotine will release some  
23 things, Dopamine and noranephromine, and what happens is,  
24 that, one, the Dopamine gives people a sense of pleasure,  
25 brightness. If you want to -- I don't want to try to be  
26 a -- That's what it is, it's hard to describe if you talk  
27 to people who smoke.

28 The noranephromine, we know, scientifically, lowers  
2709

1 appetite, suppresses appetite, and therefore smokers have  
2 lower weight. Not just because if they stop smoking they  
3 gain weight and if they go back to smoking they lose it. In  
4 fact, it's lower to begin with.

5 In addition, there is something called -- I don't  
6 need to write this. I'll do it later to save time.

7 Now, acetylcholine, A-C-E-T-Y-L-C-H-O-L-I-N-E, for  
8 those who are taking notes, and I'll try to do it again,  
9 later on in the case. It is known that this helps with  
10 memory. So when people say, you know, I kind of study  
11 better if I have a cigarette, well, you now know it is  
12 related to acetylcholine.

13 What else? We know that it enhances certain  
14 behavioral tasks. And it's not just because of memory.  
15 There's something else called B -- Capital B endorphin,  
16 that's E-N-D-O-R-P-H-I-N. We know that it reduces anxiety.  
17 And tension.

18 So when people say sometimes I have a smoke when I'm  
19 getting tense, now you know the fancy chemical word for why  
20 that's happening.

21 We know that it has increased vigilance. We also  
22 know that it apparently assists in moderating depression.

23 Now, don't get me wrong; I'm not saying that everyone  
24 who smokes is depressed and that if you smoke you'll not get  
25 depressed. But, in fact, it has been perceived to have that  
26 benefit for some if they do smoke.

27 There are other things that it does that we can get  
28 into in more detail. But what it doesn't do is, it doesn't  
2710

1 cause lung cancer. And if Mr. Lucier had lung cancer, it  
2 wasn't because the nicotine somehow changed the cells of his  
3 body that Mr. Grossman spoke about.

4 Is that the only reason people smoke? Because of the  
5 nicotine? It's kind of like asking, is that the only reason  
6 people drink coffee, the only reason, because it has  
7 caffeine?

8 No. Actually, we know that there are a lot of other  
9 reasons why, additional reasons, why people smoke. Some  
10 people, there have been studies show, feel that they like  
11 having something in their hands.

12           Some people smoke, study shows, because of rebellion.  
13 Some people do it intentionally saying, I want to show you  
14 that I'm rebelling against what other people tell me I  
15 shouldn't do that's risky. Because I am going to go ahead  
16 and do it because I enjoy it.

17           What about Mr. Lucier? Is he anything like what I  
18 just described? People feel -- feel a benefit from either  
19 nicotine or other factors.

20           In his deposition -- And I won't take time to play  
21 video -- He says that he enjoyed smoking, he always enjoyed  
22 smoking, and what he enjoyed was taste, feel of cigarettes  
23 in fingers, pain and suffering, during reflective times when  
24 anxious as means of coping with anxiety, the camaraderie of  
25 smoking, et cetera.

26           Now, I said taste. Some people have tried cigarettes  
27 that don't continue smoking, go, "Yuck, didn't taste good to  
28 me."

2711

1           What's he talking about?

2           Well, if you're not a smoker, it's hard to describe,  
3 but if you study the smokers, smokers can tell the  
4 difference between different cigarettes. Some taste okay;  
5 some don't.

6           And the reason is that it has to do with the mix of  
7 the tobaccos, which we'll get to in a minute because there  
8 are different types of tobaccos, there's Oriental, there's  
9 Burley, there's Bright.

10           Well, but am I downplaying that we know that there is  
11 a risk? There's a health consequence to this? Of course  
12 not.

13           Many people, especially public health officials and  
14 scientists, will say that they think it's an unwise choice  
15 for people to make, to smoke.

16           But the evidence is going to be that people are  
17 allowed and free to make what some others think are unwise  
18 choices. They make lifestyle choices all the time that seem  
19 unwise for others. And I think if we stop for a moment, we  
20 can all think of examples.

21           Does anyone, any part of the population, not know  
22 that we are advised by health officious that it's unwise to  
23 go out in the sun, either sunbathing or just spending a  
24 great deal of time out there without sun block? Yet we can  
25 still go to beaches and see people who not only don't have  
26 sun block, but some people are still putting things on to  
27 magnify it, like baby oil or whatever. That is their  
28 choice. Or to hike without it.

2712

1           So what do we do when we have something that gives  
2 some people some pleasure, than -- from which some say they  
3 find benefits, either in alertness, vigilance, relief of  
4 anxiety, relaxing, whatever it is, and when we know that  
5 there is a recognized risk of health consequences?

6           We don't just let people smoke without some controls.

7           We control how cigarettes are advertised. And we do  
8 that on a national basis through the Federal Trade  
9 Commission. And it's been that way for a long, long time.  
10 And it's for that reason, for example, that you don't see  
11 the commercials for cigarettes any longer. And you haven't  
12 since 1972.

13           We control who can buy cigarettes. And states can  
14 set the age limit, and they do. And they tend to be 18  
15 years old. Some have had it historically less, but a while  
16 ago. Some have the right to have it more. If we want to in

17 California we could have it at age 45, if we wanted to.  
18 There's no constitution constitutional law to have it be 18  
19 or 19, or whatever.

20 We control where cigarettes are smoked. Don't we?  
21 In fact, we do it quite vigorously in California. And so we  
22 also control, most importantly, the fact that people are  
23 warned. And we control how they're warned on a national  
24 federal basis. And Mr. Grossman went into that, but we did  
25 it for the first time, as we learned, starting in January 1,  
26 1966. That's when the first warning went on all the  
27 cigarettes from all the United States manufacturers. And we  
28 do -- And I agree with Mr. Grossman -- Control in a much  
2713

1 more aggressive, vigorous, way with all these other  
2 elements, than they do in the other parts of the world. So  
3 we know, going to the time line that specifically relates to  
4 Marlboro --

5 MR. PAUL: That's okay, you can leave it there;  
6 that's fine.

7 MR. BARRON: Marlboro is made by Philip Morris.  
8 We know that before Mr. Lucier smoked Marlboro  
9 cigarettes, the warning was on it. In fact, it was on it  
10 for some months. And so when he came to smoke Philip  
11 Morris's product, Marlboro, he smoked with that warning  
12 right on there.

13 Now, can you see? I'll move it.

14 MR. PAUL: No, that's fine. That's fine.

15 MR. BARRON: All right. So -- So what is the  
16 evidence about Mr. Lucier when he came in mid-1966 to  
17 Marlboro made by Philip Morris? Well, you heard a lot  
18 presented, I thought, very well by Mr. Grossman about all  
19 the information that Mr. Lucier had. But I would just like  
20 to give you an example that wasn't played. I'm glad there  
21 was something left for me to do, because I was going like  
22 this on my outline as Mr. Grossman was speaking.

23 Can we have those clips of what Mr. Lucier said  
24 about -- Oh, let me just say, this is -- Let me set this  
25 up:

26 This is in 1963; he's 13 years old. Remember now,  
27 he's moved to St. Louis, Missouri. Remember that -- The  
28 evidence will show that the -- He had his brothers and  
2714

1 sisters. His father was an officer of a large corporation.  
2 His mother was well educated. She was actually a pilot.  
3 He's living in this household. He's 13 years old. It's  
4 1963, and here's what happens with one of his parents.

5 Would you play the clip.

6 (The video clip is played at 11:47 am.)

7 ---o0o---

8 MR. BARRON: Could you hold for just a sec? Those  
9 were all questions that were asked by his own lawyer. That  
10 was plaintiff's counsel, one of the plaintiff's counsel.

11 Okay, thanks. The next one?

12 (A video clip was played at 11:49 am.)

13 ---o0o---

14 MR. BARRON: So you've heard about -- Bring it up  
15 into context -- You've heard about that he was 14 years  
16 old. He entered a private catholic school. It's important  
17 that you will hear about what those schools taught about the  
18 dangers of smoking.

19 We heard that, in his freshman year of high school,  
20 remember, he thought about being a priest. So in his  
21 sophomore year he went into the seminary, and you heard

22 already the rules about smoking policy there.

23 When he was deciding whether to smoke again, remember  
24 after not smoking for that period of seven months, when he  
25 was making that decision in 1966, this young man was not a  
26 naive, underprivileged, confused person about things. He  
27 was already soloing a plane. He went on very soon  
28 thereafter to get his private pilot's license.

2715

1 So, it's -- Is it odd that only he might know all  
2 those things from all those sources? We spent a lot of time  
3 that was well spent already, I think, talking about what  
4 people knew. But just let me give you a couple of examples.

5 I think it was mentioned that there was this 1959  
6 senior class particular poll, where 97 percent of the  
7 students said that they believed that there may be a  
8 connection between smoking and lung cancer.

9 I mention the catholic schools. Mr. Lucier has  
10 testified, in his deposition under oath, that he has no  
11 recollection of his schools in St. Louis taking a position  
12 against smoking.

13 Yet, it turns out, when you go back and you look at  
14 the newspapers from St. Louis, there it is, a lead article  
15 describing, in 1960, a quote, "Widespread campaign to inform  
16 high school students about the suspected relationship  
17 between cigarette smoking and lung cancer." It has begun in  
18 Missouri, it was announced.

19 In St. Louis both the Reverend James Curtin,  
20 superintendent of St. Louis Catholic Schools, and  
21 L.J. Dierker, Superintendent of Missouri Lutheran Schools,  
22 made the announcement.

23 You heard about the Surgeon General's report. But  
24 you know? What was interesting, was not only the report,  
25 but the reaction to it. And Mr. Grossman mentioned some of  
26 it. It included, though, just to make sure, the American  
27 Medical Association saying that "we do not think it's  
28 necessary to put a warning after the Surgeon General's

2716

1 report" -- Not necessarily what they wound up doing in  
2 1966, a couple years later -- "Because," they said, "the  
3 health hazards of excessive smoking have been well  
4 publicized for more than ten years and are common knowledge.  
5 And labeling", meaning warnings, "will not alert even the  
6 young cigarette smoker to any risks of which he is not  
7 already aware."

8 Again, that was the American Medical Association.

9 What about the Unites States Clearinghouse on Cancer  
10 and Smoking? The head of it said -- Pretty graphic: "You  
11 can stand on a rooftop and shout 'smoking is dangerous' at  
12 the top of your lungs, and you would not be telling anyone  
13 anything they did not already know."

14 Now, it was on January 1, 1966, like every other  
15 United States tobacco company, that Philip Morris put on its  
16 cigarettes the warning, including on Marlboro. And I would  
17 say, what is the issue? What is not to understand? For  
18 goodness sake, about a warning that says, smoking may be  
19 hazardous to health?

20 Counsel in another setting said, you know, the word  
21 "is". Remember, we poked fun at a present who said, "How do  
22 you define 'is'? And we got to know what 'is' is.

23 Later on, there may be evidence that those words  
24 would change from "may" to "is", but, for goodness sake.  
25 When you go to the beach and one looks at a sign that says,  
26 "caution", or "warning, beach may have riptides", it doesn't



27 say all the time; it doesn't say everybody's going to drown  
28 that goes swimming.

2717

1 But I say again, what is there not to understand  
2 about the warning of 1966, especially for a young man with  
3 this fellow's background and his state of awareness, as  
4 mentioned earlier by Mr. Grossman and, hopefully, amplified  
5 a little bit by what I've said.

6 Your Honor, this would be good time to break.

7 THE COURT: Okay, have a nice lunch. We'll be in  
8 recess until 1:30. Please don't discuss the case.  
9 1:30.

10 (The noon recess was taken at 11:59 am.)

11 ---o0o---

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1 FRIDAY, NOVEMBER 8, 2002

2 (Afternoon Session)

3 ---o0o---

4 The matter of LAURENCE LUCIER and LAURIE LUCIER, et  
5 al, Plaintiffs, versus PHILIP MORRIS INCORPORATED, et al.,  
6 Defendants, Case No. 02AS01909, was continued regularly this  
7 day before the Honorable Steven H. Rodda, Judge of the  
8 Superior Court of the State of California, for the County of  
9 Sacramento, Department 44/1 at 1:30 o'clock p.m.

10 The Plaintiffs, LAURENCE LUCIER and LAURIE LUCIER,  
11 were represented by: GARY M. PAUL, Attorney at Law;  
12 MARY ALEXANDER, Attorney at Law (not present); and ROBERT M.  
13 BROWN, Attorney at Law (not present).

14 The Defendant PHILIP MORRIS INCORPORATED was  
15 represented by: GERALD V. BARRON, Attorney at Law;  
16 LAURA C. FEY, Attorney at Law; STEPHANIE A. SCHRANDT,  
17 Attorney at Law (not present); DEBORAH A. SMITH, Attorney at  
18 Law (not present); and ANNIE Y.S. CHUANG, Attorney at Law  
19 (not present).

20 The Defendant R.J. REYNOLDS TOBACCO COMPANY was  
21 represented by: THEODORE M. GROSSMAN, Attorney at Law;  
22 HAROLD K. GORDON, Attorney at Law; ELIZABETH P. KESSLER,  
23 Attorney at Law; DANIEL J. McLOON, Attorney at Law (not  
24 present), and STEVEN N. GEISE, Attorney at Law  
25 (not present).

26 The following proceedings were then had:

27 ---o0o---

28 THE COURT: Okay, ready for jury, are we?

2719

1 MR. GROSSMAN: Yes, your Honor.

2 MR. BARRON: Yes, your Honor.

3 MR. PAUL: Yes, your Honor.  
4 THE COURT: Okay, bring them in, please.  
5 (The jurors, brought in at 132 p.m.)  
6 ---o0o---  
7 THE COURT: Good afternoon.  
8 (All say "good afternoon".)  
9 THE COURT: Ready, are we?  
10 MR. BARRON: Yes.  
11 THE COURT: Okay. Mr. Barron.  
12 MR. BARRON: Welcome back.  
13 And thanks again. I know it was a long day  
14 yesterday, and it's been a long morning this morning. And  
15 all counsel know how difficult it is to listen for a great  
16 length of time.  
17 We had just, I think, finished dealing with one of  
18 the ways in which a claim is being made in kind of common  
19 language here, in terms of: I was made to smoke, caused to  
20 smoke, by defendants' fault. And that would be in essence  
21 Mr. Lucier saying, "Sure, I chose to smoke for those 30-plus  
22 years. But that's your fault, for example, Philip Morris,  
23 because you didn't adequately warn me." Adequately warn.  
24 That's what we just talked about.  
25 So I'll just put down here, a subset, "adequate  
26 warning". He says no adequate warning.  
27 In essence, Mr. Lucier is also claiming that, "Well,  
28 sure, I chose to smoke for 30-plus years, but that's, again,  
2720  
1 not entirely my responsibility. That's the responsibility  
2 of you, Philip Morris, because it's your fault, because you  
3 made some statements. And I say they're false, and I say I  
4 relied on them."  
5 False statements are in effect the law's words. You  
6 know, liar was the word that counsel used. But that's in  
7 essence the other way of approaching it.  
8 So it's -- Just so we're now going to talk about  
9 briefly -- He's saying false statements -- Oops, of fact.  
10 "So I was made to smoke by your fault because I was  
11 made to smoke by your false statements of fact that I relied  
12 on."  
13 Now, let's investigate that. Now, plaintiff will, in  
14 their case, I suspect, as in the opening, often and  
15 relentlessly -- Groups of documents. And they will try to  
16 say that, you know, this document is a false statement.  
17 This is a false statement. This part of this document is a  
18 false statement.  
19 So we need to talk a little bit about documents. I  
20 suggest the following to you:  
21 First, sometimes the selected, the extracted,  
22 highlighted, the pulled-out portion of the document may not  
23 accurately reflect what really is the purpose or intent or  
24 statement of the document as a whole and get a chance to  
25 look at it. And let me just, if I could, take a moment and  
26 just give you one example of that.  
27 That's why I'm at the podium, because I've got these,  
28 and these are the full documents in essence of what we  
2721  
1 talked about yesterday.  
2 But I'm not going to go through all of this. You  
3 would toss me out, I'm sure.  
4 Let me go through one.  
5 Thank you.  
6 This was Exhibit 245 -- Oh, I've got to do the  
7 unfreeze. There we go.

8 Don't watch; you'll get dizzy probably. It's 245.  
9 And here were the statements that were extracted on  
10 the right, you remember: "Whether or not cigarette smoking  
11 is a cause of lung cancer is a matter of definition."  
12 That's where we had the fun with what is the "is"  
13 word saying?

14 "And then add to this possibility the  
15 normal reluctance of the average human to change  
16 his habits; the conclusion is then quite apparent  
17 that the cigarette business will continue for a  
18 long, long time." Referencing, obviously,  
19 nicotine concept there.

20 And as you saw yesterday, what I've tried to do is  
21 replace those pulled-out, extracted clipped portions and  
22 colored them in what's kind of highlighted pink here, but  
23 turns purple by the machine -- And show you there's a lot  
24 more that relates to that.

25 Um, pretty difficult to see from where you are. Let  
26 me just go through it very quickly for you. I know it's  
27 labor-intensive, but it needs to be done at least once, in  
28 my opinion.

2722

1 This is the entire statement, you know, the "what it  
2 is" argument. "Whether or not cigarette smoking is a cause  
3 of lung cancer is a matter of definition."

4 Probably if you go to a dictionary, you'll find  
5 multiple definitions above it or not. But here's what they  
6 go on to say.

7 "Epidemiologists, medical statisticians,  
8 define a cause as any factor, the removal or  
9 absence of which eliminates the disease,  
10 irrespective of any intermediary" -- Excuse me --  
11 "Any intermediate steps involved. Researchers  
12 now, I believe, generally agree that lung cancer  
13 is an end stage of a series of sequential  
14 changes."

15 Goes on.

16 Is there anything wrong with trying to discuss what  
17 you mean in that way?

18 Let's go look at the second part of the statement.  
19 And there's more. It talks about, incidentally, in the  
20 second paragraph:

21 "Cancer-producing, in mice, chemicals are  
22 now found in city air, often in concentrations  
23 higher than that found in cigarette smoke. These  
24 chemicals come largely from the road tar, rubber  
25 tires -- Rubber tires and incompletely burned  
26 petroleum fuels."

27 Skipping down a line, just to try to get to the  
28 conclusion of this:

2723

1 "In view of these facts, and in view of the  
2 failure of researchers to establish a definite  
3 link between smoking and lung cancer, many cancer  
4 students are seriously doubting the hypothesis  
5 that cigarettes should be blamed as a, quote,  
6 'cause'."

7 So here we have someone struggling with definitions,  
8 state of the scientific methods. It's not merely just a  
9 clip. Let's go to the second part, the clip about staying  
10 in business. The last paragraph.

11 "The complexity of the problem is such that, even if  
12 further evidence for a relation between cigarette smoking

13 and lung cancer is uncovered, the answer will be neither  
14 conclusive nor simple."

15 And the ellipses portion, continuing with the yellow:  
16 "This is not to belittle the influence of Readers' Digest or pronouncements by the American Cancer Association."

17 I repeat: It's not to belittle them. That is what  
18 this statement said. These agencies have already  
19 demonstrated their effectiveness to educate the American  
20 public.

21 That is, at least -- Without reading the whole  
22 document -- That I think gives you an idea of the  
23 context -- That all can be done with the document.

24 Now, sometimes the accuracy of an intent or purpose  
25 of a document or its effect can only be fairly evaluated,  
26 can it not, when you look at other documents that are  
27 associated with it.

2724

1 Sample number two: There was -- Oh, you can take  
2 that down now. I'm sorry.

3 Example number two: There was reference to a memo  
4 from someone named Dunn to someone named Levy, and it  
5 related to a person of Philip Morris and her work. Her name  
6 was Caroline Levy, and there was emphasis on the highly  
7 charged word, quote, "We will bury it," or something of that  
8 kind. Wasn't "bury". It was a study that was going to be  
9 done, again, of nicotine and involved with animals.

10 The fact of the matter is that we have the results of  
11 that work. We have it in her lab book. And it will be and  
12 available for you to see at the conclusion of the case.

13 These are the documents that put that in perspective.

14 Whatever Dunn was thinking or not thinking, it has to  
15 be evaluated by what others thought, because one person does  
16 not a company make. And the work was done, and the lab  
17 books were available. And we'll talk about that in detail.

18 Example number three: Sometimes plaintiff's counsel  
19 may suggest or imply a purpose that, again, it's clipped or  
20 extracted from a document, and we will frankly have  
21 disagreement with it. And that's what you as jurors will  
22 have to evaluate it: What is the more likely correct  
23 implication of something?

24 Let me give you an example, Exhibit No. 4.

25 Again, interestingly, it's from someone named Dunn.

26 The only portion that was talked about was this  
27 portion about, remember, a dose unit of nicotine. Think of  
28 a cigarette as a package.

2725

1 You know, when I was listening to that, I -- I was  
2 listening to that, I have to say wait a minute. Isn't a  
3 coffee cup a dose unit of caffeine?

4 Here is something that he also said: To put this in  
5 perspective, what he was talking about, see if I can do this  
6 without -- Oops -- Found on page three of the document:

7 "Lest anyone be made unduly apprehensive about this  
8 drug-like -- Drug-like conceptualization of the cigarette,  
9 let me hasten to point out that there are many other  
10 vehicles of sought-after agents which dispense in dose  
11 units."

12 Wine is the vehicle and dispenser of alcohol.

13 Tea and coffee are the vehicles and dispensers of  
14 caffeine.

15 Matches dispense dose units of heat. And money is  
16 the storage container, vehicle and dose dispenser of many  
17 things.

18 Now, if we had a sinister type of thing in mind, when  
19 we wrote the first part of what nicotine is in a package of  
20 cigarettes or a particular cigarette, one would think that  
21 this would be the kind of thing that one would keep very  
22 secret, wouldn't one?

23 But the fact is that this was a conference attended  
24 by enormous number of people, the evidence will show. We'll  
25 produce it for you.

26 And he published these concepts, at the time. He  
27 published concepts of what he thought nicotine was in a  
28 cigarette. And we talked about that.

2726

1 Okay. Sometimes -- Another point of the documents  
2 is, that they will appear, but yet they will be difficult to  
3 really accurately evaluate unless you have some background  
4 and understanding of the timeframe in which they were  
5 written.

6 The times that formed their background, the state of  
7 knowledge, the state of science.

8 It's easy to Monday-morning quarterback; we're all so  
9 smart now in talking about what people did or didn't do 30,  
10 40 or 50 years ago. But we forget. And we'll try to do  
11 that.

12 And I thought actually we've done quite well by my  
13 co-counsel, co-defense counsel here, when he talked about  
14 things that were known around the time of the "Frank  
15 Statement" and why people might not have been so sure when  
16 they printed the statement they did. And that was exhibit  
17 No. 19, the "Frank Statement".

18 Now, even if you look at a document, and one feels  
19 that the statements or intent or purpose is crystal clear,  
20 and one can have no real significant reservation or doubt  
21 about it, when you're dealing with a document of a company,  
22 there are a couple things that one, I think the evidence  
23 will show, needs to ask:

24 Does the statement reflect the person's opinion or  
25 the company's opinion?

26 Does the author have the authority to make the  
27 policy, to offer the opinion and make its conduct, for  
28 goodness sakes?

2727

1 Now, we're talking about a corporation. In other  
2 words, sometimes, you know, we worry -- The dreaded 'C'  
3 word, another dreaded word, 'C' word, corporation.

4 What is a corporation? We all know that sometimes we  
5 have to pinch ourselves and remember: A corporation, yes,  
6 is a person in the eyes of the law, the evidence will show.  
7 A corporation is a legal entity. Yes, a corporation has  
8 files, articles of incorporation, in certain states.

9 Yes, a corporation has bylaws setting forth how the  
10 corporation should operate and what its purpose is going to  
11 be.

12 But formed by whom? And maintained by whom?  
13 Ultimately, the evidence will show, we all know this; a  
14 corporation is owned by people. We call them shareholders.  
15 But that's what they are. They're people; they're  
16 individuals sometimes. Sometimes they're mutual funds.  
17 They're groupings of people sometimes. But that's what a  
18 corporation is.

19 Is it important? I am going to show you why it's  
20 important.

21 The evidence will show that one way to look at it, in  
22 my view, is to say, here you have owners -- Shareholders,

23 people or groups of people.

24 But when you have lots of people making a big group  
25 of people, therefore a big company, you can't have everybody  
26 participate in every decision. So what do you have? The  
27 evidence we know is; you have people elected who are boards  
28 of directors, don't you? They're a smaller group.

2728

1 But the board of directors don't actively run a  
2 corporation on a day-to-day basis. What do they do?

3 They decide who are going to be the officers, don't  
4 they? The evidence will show they pick -- Different words  
5 are used -- A C.E.O., chief executive officer or a  
6 president.

7 And then what happens? You got a big group of people  
8 in a big company; you don't have one guy do it all. He  
9 doesn't make the policy, type the letters, distribute the  
10 product. He's got to hire people. So he hires people to be  
11 with him as officers. They in turn hire people. They form  
12 groups and divisions. They in turn hire people, and we have  
13 staff and people --

14 MR. PAUL: Your Honor, I'm not sure --

15 THE COURT: Approach the bench, please.

16 Please don't overhear our conversation.

17 Do you want to join us, Mr. Grossman, or not?

18 (Mr. Grossman approaches the bench.)

19 (At Bench)

20 MR. PAUL: With all due respect, we're now almost six  
21 hours into the defense's opening statements. This is --

22 MR. BARRON: This is critical.

23 MR. PAUL: Excuse me just a second.

24 I've had a witness, as everybody has known, ready to  
25 go here since 9:00 o'clock this morning.

26 THE COURT: How much more do you have?

27 MR. BARRON: I can finish in half an hour; I'll try  
28 to rush through it.

2729

1 MR. PAUL: But I got to say, going through an  
2 explanation of a board of directors --

3 THE COURT: You got to, you're --

4 MR. BARRON: I'm going to relate to a document and  
5 move on.

6 THE COURT: All right.

7 (Back out in open court at 1:55 pm.)

8 ---o0o---

9 MR. BARRON: Okay. Why do I say this? Because there  
10 are going to be occasions when people may say things that do  
11 not speak for the company, and it can go up to the highest  
12 levels. And that's why I bring it up.

13 Evidence was mentioned about a statement in 1998 by  
14 the then president, C.E.O. of Philip Morris -- Even  
15 emphasis was placed on his name, I think, for obvious  
16 reasons. His name was Mr. Bible, you'll remember. And a  
17 statement was read by him, about if he thought such and  
18 such, he would close the doors or shut it down tomorrow.

19 You know something? The evidence will be that he  
20 doesn't have the authority to do that. He doesn't have the  
21 authority to do that.

22 Why? It's not his company. It's owned by people who  
23 then have the board of directors acting for them, and he  
24 doesn't have the power to close it down.

25 Nor would the evidence be that should be, because  
26 it's a legal activity. And he can't unilaterally close it  
27 down and have other companies in the United States continue

28 to manufacture and have his owners and shareholders go  
2730

1 under. He couldn't even get all the U.S. tobacco companies  
2 together and all the C.E.O.'s -- All of them together and  
3 shut it down. Forget the shareholders?

4 What about companies in other parts of the world?  
5 What about countries who manufacture cigarettes?

6 So, it can go to the highest level that persons don't  
7 have the authority to make the decision that someone may  
8 think that they are talking about in the document.

9 All right. What about documents for Philip Morris?  
10 The evidence will be, from Mr. Lucier's own words, that he  
11 can't point to any wrongful documents under the law that he  
12 specifically saw and relied on.

13 What he says is: I saw advertisements. I heard  
14 advertising.

15 Well, the one thing about that is, first of all, it's  
16 pretty clear from the evidence -- And we've heard a lot  
17 about it -- We're going to hear a lot more, and you may  
18 even hear the jingle and all that, from their part of the  
19 case.

20 The fact of the matter is that the Marlboro man in  
21 the TV commercial did not start Mr. Lucier smoking.

22 And he didn't start smoking until January of 1966.  
23 And, besides, what does the Marlboro -- What is the  
24 Marlboro statement? Is there evidence that the Marlboro  
25 statement is a statement of fact? That is false?

26 "Come to where the flavor is." A lot of people find  
27 flavor in Marlboros.

28 Is that a false statement?

2731

1 "Come to Marlboro country."

2 Where's the false statement there?

3 Now, we move to the third and kind of last general  
4 area, which has to do with defective cigarettes, and --  
5 Plus, I smoked defective cigarettes was what he was saying.  
6 And that's this: (Counsel writing on the chart)

7 I am going to go through this faster than I intended  
8 because I do want to keep this short so we can get on to  
9 something. I've been encouraged to keep it shorter by the  
10 situation.

11 So let me see if I can do this and still, yet  
12 hopefully, have you close -- Have a chance to understand  
13 what I'm saying about the evidence.

14 You heard about what R.J. Reynolds did up to 1966.

15 I can assure you there will be evidence of similar  
16 activities by Philip Morris before, if we need to do that,  
17 and certainly after 1966, dealing with its products,  
18 Marlboro, Merit and others.

19 What will that evidence be? It will be that we also  
20 reduced generally the amount of tar in the same general way,  
21 some of the same general ways that you heard about.

22 We also went after things that were suspected of  
23 being those particles. Remember in the tar part, the solids  
24 that were suspected of maybe being a problem, and tried to  
25 eliminate them selectively?

26 You will hear evidence of how difficult that is,  
27 because, not only are they so small and so few, but also  
28 when you do something to get rid of one, you change the

2732

1 chemical mix up. And it's amazing, when you fool with  
2 nature, you change one thing, and then that -- The  
3 particles reform, and sometimes what they reform to, as

4 being as a chemical compound, it has some potential problem  
5 also. Or at least it's thought to be.

6 So it's very hard to isolate and selectively take out  
7 one and isolate and selectively take out others, because  
8 we're dealing with what you've heard. There are about 4000  
9 4500, 4800 chemicals when you smoke, and they do change,  
10 even in the smoke itself as they're released.

11 Did we make a good-faith effort, and did we  
12 accomplish something? I think the evidence will show that  
13 we did.

14 Very quickly. First of all, involving the tar issue,  
15 there have been efforts to lower tars that have been  
16 successful.

17 And guess what? One of the lowerings was with  
18 Merits.

19 Now, one of the advances for Merit was: When you  
20 lower tar, tar is also what gives taste. It's kind of like  
21 saying when you take out a lot of marbling in beef, you can  
22 reduce the risk that people are going to have cholesterol  
23 buildup and heart attacks. And people, say, you know, but  
24 it doesn't taste quite as good as when I was able to go and  
25 get a Kansas City steak with more marbling.

26 So what we tried to do is take out a lot of tar and  
27 lower it and also give it taste. And so with Merit, over a  
28 10- or 12-year period, what incurred was, we invented some  
2733

1 technology, just like Reynolds invented technology.

2 What we did was we went to gas chromatography, where  
3 we're sitting there with light, and just like we look in  
4 space to try to figure out what's going on by the color  
5 spectrums that we get, we were looking at smoke to try to  
6 figure out what was there and try to find out what was  
7 flavorful, so that we could keep the flavor full and take  
8 out the ones that weren't flavorful that might be a problem  
9 or reinsert something and give it more flavor -- And, lo  
10 and behold, came up with the Merit.

11 We advertised it as a taste, and low tar, and we  
12 think both were factually true. It was low tar, and it was  
13 tasteful. And people who had tried low tar, be it Carlton  
14 or Vangtage or some of these others and didn't like it, they  
15 found that they tried Merits, and they did like it.

16 And it turned out that Mr. Lucier, in 1976, went to  
17 smoke Merits, and interesting --

18 Mr. Paul, do you still have that photograph of the  
19 ranch --

20 MR. PAUL: I don't have it with me today.

21 MR. BARREN: It's in evidence. We'll have it, I'm  
22 sure.

23 If you look at the photograph, the date of the  
24 photograph itself was May of 1976. And that's the time when  
25 Mr. Lucier began to smoke Merits, when he was being the  
26 cowboy. He stuck with Merit for, what, 20-years, plus, from  
27 '76 all the way to '99. He wasn't interested in anything  
28 else because he liked the taste. We came up with lower tar  
2734

1 ones, trying to maintain the taste. That was the Ultima,  
2 and then one even more -- Lower than that.

3 But that's what we did. That's the kind of thing.  
4 You know, and there were other efforts.

5 How about nicotine? Interesting story here.

6 For those that had a problem with it, what we did  
7 was, we said, okay, maybe there's a way to take it out.  
8 Struggled with it. Finally found out there's a method --



9 There actually was a method that came up with -- Through  
10 General Foods' effort, General Foods doing what,  
11 decaffeinating coffee, very similar. Efforts were made to  
12 go the Germany. Some of the best -- Germany has high  
13 technology -- And went to Germany and worked on the  
14 project. People were saying it couldn't be done, taking the  
15 technology and bringing it over to tobacco, but that it  
16 worked.

17 The product we made was called Connect. Practically  
18 no nicotine. Problem is, that just like there's some people  
19 who call decaffeinated coffee like drinking warm, dark  
20 water, there are some people that don't like to smoke  
21 without the benefits that they see the places that they see  
22 nicotine. It just didn't work in the marketplace. But  
23 after great efforts and marketing attempts, we did that.

24 The interesting thing is that you'll find over the  
25 years that there have been scientists and doctors who have  
26 said, as Mr. Grossman mentioned: Why don't you, instead of  
27 lowering the nicotine, raise the nicotine so you can lower  
28 the tar, to give people the pleasure of the nicotine, keep  
2735

1 the tar out that has, we think, the more potential for bad  
2 things, like a cancer?

3 And then other people have come around and said, no,  
4 you got it all wrong. Take the nicotine way down and leave  
5 the tar way up, but people will stop smoking because they  
6 don't get the nicotine over time. So it's kind of like,  
7 what do you want us to do?

8 That's what the evidence is.

9 In conclusion, first of all, for those who took  
10 notes, I did come and spell these things for you, I'll leave  
11 them up for you.

12 In conclusion, when we go, and look at these  
13 questions. Especially the last one that I spent all my time  
14 on -- 4, which is, 4-A, -B and -C.

15 I would say that the evidence will show that this is  
16 not a case in which the planks of the bridge have been built  
17 that separates him from others and moves him across to a  
18 situation where an award of money is appropriate.

19 And as, for example, even the defective cigarette  
20 issue, the interesting thing about all that is, anyone, you  
21 design something, someone's got to smoke it.

22 If you build a lower Ultima, Merit and people don't  
23 buy it, what are you to do? If -- And also, if you build a  
24 product with the filter on it that accomplished the results  
25 that Merit accomplished and somebody turns the filter off,  
26 how can -- As he says, it is the product that caused the  
27 problem, when we changed the product.

28 I really thank you four your indulgence, it will be  
2736

1 quite while because I'm at the end of the line for the  
2 chance to produce evidence. I thank you for the time for  
3 allowing me to proceed, and look forward to presenting my  
4 case to you.

5 Thank you, your Honor.

6 THE COURT: We'll take ten-minute recess now. Please  
7 don't discuss the case.

8 ---o0o---

9 (A brief recess was taken at 2:05 pm.)

10 ---o0o---

11 THE COURT: Ready for jury?

12 MR. PAUL: Yes, your Honor.

13 THE COURT: Okay, bring them in.



19 interest?

20 A. Yes. My medical training is internal medicine --  
21 With a special interest in clinical pharmacology and medical  
22 toxicology.

23 My research area has been studying the health effects  
24 of cigarette smoking, particularly looking at questions of  
25 nicotine, the importance of nicotine in maintaining smoking,  
26 aspects of nicotine addicts, and then also questions of the  
27 use of nicotine and other medications to help smokers, who  
28 would like to quit smoking, quit.

2739

1 Q. Okay. And for how long have you had this interest or  
2 worked in the field dealing with nicotine?

3 A. That work began in about 1975.

4 Q. And we'll get into that in a little bit, but you have  
5 published in that area?

6 A. Yes.

7 Q. You've taught in that area?

8 A. Yes.

9 Q. Okay. Let's talk about a couple of the other terms.  
10 You used it a couple times "pharmacology". You say that  
11 you're a chief of the division of clinical pharmacology.

12 First, what is the chief of the division?

13 And then can you explain to us at some point what  
14 pharmacology is.

15 A. Yes. Well, departments in our medical school are  
16 broken up into divisions, so that each of the faculty  
17 persons belongs to one division.

18 For example, cardiology is a division. Or  
19 hematology, or cancer.

20 Clinical pharmacology is also a division. And  
21 clinical pharmacology is the study of drugs and teaching  
22 about drugs in people.

23 Pharmacology itself is a term; it's the science of  
24 drugs, how drugs act, what they do.

25 Clinical pharmacology looks at the science of drugs  
26 in humans, and it spans from developing new drugs, studying  
27 how drugs work in people, trying to develop the best way to  
28 use drugs to treat medical diseases.

2740

1 Studying drug abuse, studying toxic or injurious  
2 effect of drugs, and even studying drug overdose.

3 In our division, our faculty are involved in various  
4 aspects of -- Of drug-related research, and the San  
5 Francisco branch of the California Poison Control Center,  
6 which is toxicology, is also part of my division.

7 So a number of the faculty in my division are  
8 involved in studying poisonings and drug overdoses.

9 Q. So when you say you're chief, that means that you  
10 basically are the head of that division?

11 A. Yeah.

12 Q. For how long have you been chief?

13 A. That's since 1985.

14 Q. Okay. You said that you're involved with the  
15 department of medicine, biopharmacology, and psychiatry. Is  
16 that correct?

17 A. The second one is biopharmaceutical sciences. It's a  
18 long word.

19 Q. You're absolutely correct. I misread it.

20 Biopharmaceutical scientist. What does that mean?  
21 Is that any different than what we were talking about  
22 before?

23 A. Yes. Our division has got members not only in the

24 department of medicine but in our school of pharmacy.

25 The school of pharmacy basically studies drug action  
26 involved in developing new drugs, and their department that  
27 studies drug action and new drugs is called  
28 biopharmaceutical science. In a "pharmaceutical", the  
2741

1 drugs; "bio" is drugs in people. And science is just the  
2 science of studying that. So it's actually a similar term  
3 to clinical pharmacology, but it applies to pharmacy.

4 Q. What is your involvement then in psychiatry?

5 A. Well, psychiatry comes from my work in addiction, so  
6 even though I'm not a psychiatrist, I'm trained in internal  
7 medicine and cardiovascular disease.

8 What I teach about addiction is most -- Is very  
9 relevant to what psychiatrists need to learn. And so I  
10 teach about addiction to psychiatrists, and --

11 Some of my research is actually done in association  
12 with psychiatrists, in the addiction field.

13 Q. By the way, is nicotine a drug?

14 A. Yes.

15 Q. Is nicotine addictive?

16 A. Yes.

17 Q. Let's talk about your educational background.

18 Why don't you tell us where you went to college,  
19 medical school, leading up to your work in your specialty.

20 A. I went to undergraduate school at Rensselaer  
21 Polytechnic Institute in Troy, New York; I studied physics  
22 there.

23 I then went to medical school at University of  
24 Rochester in Rochester New York,

25 I graduated from Rochester in 1969.

26 I then did internship and residency in internal  
27 medicine at the Bronx Municipal Hospital Center in New York,  
28 which is the main county hospital in the Bronx.

2742

1 Following that, I came to San Francisco, and I did a  
2 postdoctoral fellowship in clinical pharmacology, that was  
3 from about 1971 to about 1973.

4 And then I joined a faculty as an instructor first  
5 and then assistant professor and lead assistant professor  
6 and full professor at the time.

7 Q. So you're licensed in the State of California as a  
8 doctor?

9 A. Yes.

10 Q. And that occurred when?

11 A. 1971? I think?

12 Q. And are you familiar with the term board  
13 certification?

14 A. Yes.

15 Q. First, define the term for us, and then tell us  
16 whether or not you're board-certified?

17 A. Well, different medical specialties -- Specialties  
18 have a different board, or a board that certify  
19 practitioners as being qualified to practice on that board.

20 Internal medicine is the main board, and that's  
21 really for physicians who specialize treating adult  
22 disorders of internal organization, heart, lungs, kidneys  
23 intestines, anything that's non-surgical.

24 And that board requires a certain amount of training  
25 and then passing a two-day examination.

26 I also have board certification in clinical  
27 pharmacology, which is, as I said, the field that deals with  
28 drugs and people. And they have -- They have an

2743

1 examination to pass. And there's also a board in medical,  
2 toxicology, which is -- Which is sort of a specialty of  
3 clinical pharmacology dealing with drug-related injuries.  
4 And for that, you have to have a certain amount of training  
5 and pass an examination.

6 So I have boards in those three areas.

7 Q. Over your career -- I am looking at your C.V. or  
8 your curriculum vitae or your resume, right?

9 A. Yes.

10 Q. It's about 31 pages long?

11 A. Yes.

12 Q. Over your career you've received a number of honors,  
13 correct?

14 A. Yes.

15 Q. I just want to touch on a couple of them.

16 The American Society for Clinical Investigation?

17 What is that?

18 A. Well, that is a -- Society for prominent medical  
19 researchers. It's an elected society. That honors people  
20 who have made national contributions in the area of medical  
21 research.

22 Q. You are listed as one of the best doctors in America  
23 in the field of clinical pharmacology for a number of years?

24 A. Yes.

25 Q. Okay. 1996, you were president of the society for  
26 Research on Nicotine and Tobacco?

27 A. Yes.

28 Q. What's the nature of that organization?

2744

1 A. That is a major society in the world for scientists  
2 and health-care professionals who are doing research on  
3 tobacco-related health problems, and involving treatment of  
4 tobacco addiction.

5 Q. When you say it's worldwide, you were president of a  
6 worldwide organization?

7 A. Yes.

8 Q. 1996, you were president of the American Society for  
9 Clinical Pharmacology and Therapeutics?

10 A. Yes. That is the worldwide major society for the  
11 area of clinical pharmacology, so, again, these are  
12 scientists who are involved in studying how drugs work in  
13 humans, drug development, drug regulation, drug monitoring.

14 Q. In 1996, you got the -- If I pronounce it  
15 incorrectly, I'm sure you'll correct me -- The Ove Ferno  
16 award?

17 A. Yes.

18 Q. What is that?

19 A. The Ove Ferno award is an international award given  
20 to a scientist for distinction in research on the human  
21 pharmacology and effects of nicotine, basically. So that  
22 was work given for my research on nicotine addiction.

23 Q. And that's a worldwide organization?

24 A. Well, it's not an organization; it's an award that's  
25 given worldwide.

26 Q. Who gives the award?

27 A. Well, it's given -- At that time it was given by the  
28 International Collegium of Psychopharmacology.

2745

1 Now it's actually been taken over by the Society for  
2 Research on Nicotine and Tobacco. So they have a committee  
3 that awards that award every three years.

4 Q. 1997, you got the American Thoracic Society

5 Presidential Commendation?  
6 A. Yes.  
7 Q. First, what does "thoracic" mean?  
8 A. Chest. That's the main society that relates to lung  
9 disease, chest diseases, research and practice in that area.  
10 Q. Have you had occasion from time to time to be a  
11 lecturer at universities outside of U.C.S.F. regarding  
12 nicotine and addiction?  
13 A. Yes. I've lectured throughout U.S. and around the  
14 world on nicotine addiction.  
15 Q. Oxford?  
16 A. Yes.  
17 Q. You belong to a number of professional organizations,  
18 correct?  
19 A. Yes.  
20 Q. The Academy of Behavioral Medicine Research?  
21 A. Yes.  
22 Q. What does "behavioral medicine" mean?  
23 A. Well, behavioral medicine deals with the aspects of  
24 medicine that are influenced by how people behave.  
25 It includes things like how stress interacts with  
26 illness. Eating problems. Smoking behavior. Other sorts  
27 of behaviors that people do.  
28 Also includes things like compliance with  
2746  
1 medications, why some people take medicines and some people  
2 don't. So it's the interaction between people's behavior  
3 and medical disease.  
4 Q. You are a member of the American Heart Association,  
5 the Council on Hypertension?  
6 A. Yes.  
7 Q. The Association of American Physicians?  
8 A. Yes.  
9 Q. And then there's a whole page here of professional  
10 activity, your involvement in organizations, and your  
11 activities in those organizations, correct?  
12 A. Yes.  
13 Q. A lot them dealing with some of the organizations  
14 that we've already talked about, sir?  
15 A. Yes.  
16 Q. It also indicates that you are an ad hoc referee.  
17 First, what is an ad hoc referee?  
18 A. Well, when research work is published in a journal,  
19 it is reviewed by other scientists in the field to see if  
20 that work is valid, and important. And should be published.  
21 I get sent articles from a lot of different journals  
22 in the field of smoking and health to review them to see if  
23 these papers should be published. And I look at them, and I  
24 write back a comment, saying if it should be published or  
25 shouldn't, and if it should be published what changes should  
26 be made to make it a better paper.  
27 Q. So in other words, in your field, your areas of  
28 expertise, if you talk to us about, you'll be sent articles  
2747  
1 that people are submitting, other doctors or clinicians.  
2 And then you will review them and go back to the  
3 journals that are looking at those articles and tell them  
4 whether or not they should be published?  
5 A. Yes.  
6 Q. Okay. And you've done that for a number of different  
7 journals, correct?  
8 A. Yes.  
9 Q. Addiction?

10 A. Yes.  
11 Q. That's the title of the journal?  
12 A. Yes.  
13 Q. The American Journal of Cardiology?  
14 A. Yes.  
15 Q. The American Journal of Clinical Nutrition?  
16 A. Yes.  
17 Q. The American Journal of Emergency Medicine?  
18 A. Yes.  
19 Q. The American Journal of Epidemiology?  
20 A. Yes.  
21 Q. Hypertension?  
22 A. Yes.  
23 Q. Kidney Disease?  
24 A. Yes.  
25 Q. Medicine.  
26 A. Yes.  
27 Q. It fills an entire page, correct?  
28 A. Yes.

2748

1 Q. Including British journals on medicine?  
2 A. Yes.  
3 Q. Now, I want to talk about some of your other works  
4 that you've done professionally in these areas.  
5 1986, U.S. Surgeon General Advisory Committee work?  
6 A. Yes.  
7 Q. What did that have to do with?  
8 A. Well, I was involved then with a couple of Surgeon  
9 General's reports.  
10 I don't remember the exact dates, but there were two  
11 Surgeon General's reports that I worked on. One was the  
12 report on passive smoking. And health consequences of  
13 passive smoking.  
14 And the other one was the report on smokeless  
15 tobacco, which is like spit tobacco and snuff.  
16 Q. Okay. If you can remind me.  
17 1987, do you remember working on the U.S. Surgeon  
18 General's report on smoking and health, nicotine addiction;  
19 you were the scientific editor?  
20 A. Yes. I was one of four scientific editors, so we  
21 were responsible for really organizing and writing the final  
22 draft of that report, which, I think, was the first  
23 systematic collection of information about nicotine  
24 addiction in the world and really became the benchmark  
25 document for -- The basis for nicotine addiction.  
26 Q. You've also, I think, touched on it, but you've  
27 worked in the field of environmental tobacco smoke, which is  
28 sometimes called E.T.S.?

2749

1 A. Yes.  
2 Q. Secondhand smoke?  
3 A. Yes.  
4 Q. Workshop smoke?  
5 A. Yes.  
6 MR. GROSSMAN: Your Honor, may we approach.  
7 THE COURT: Yes.  
8 THE COURT: Please don't overhear our conversation.  
9 (At Bench)  
10 ---o0o---  
11 MR. GROSSMAN: Tobacco smoke, you were leading him  
12 with questions in that area --  
13 MR. PAUL: I just asked --  
14 THE COURT: Anything more on this?

15 MR. PAUL: No. I was done.  
16 THE COURT: Okay, go ahead.  
17 (Back In Open Court)  
18 Q. BY MR. PAUL: In 1993, what is the Institute of  
19 Medicine?  
20 A. That is a national organization of prominent health  
21 scientists who are asked to meet in committees to discuss  
22 issues of national public health consequences.  
23 And I am not a member of that, but I've worked a  
24 couple of those committees.  
25 Q. And, in fact, you worked on the committee on  
26 preventing nicotine addiction in children and youth,  
27 correct?  
28 A. Yes.

2750  
1 Q. 1994, you worked with the National Cancer Institute  
2 Committee --  
3 A. Yes.  
4 Q. -- Dealing with determining tar and nicotine in  
5 carbon monoxide level in cigarettes?  
6 A. Yes.  
7 Q. Coming more up to date, 1998, U.S. Surgeons report on  
8 tobacco use on U.S. racial and ethnic and minority groups?  
9 A. Yes.  
10 Q. What was the nature of that work?  
11 A. Well, that report was looking at differences in  
12 tobacco use and addiction and -- Tobacco-related diseases  
13 and different racial, ethnic groups.  
14 So it really compares whites, Hispanics, African  
15 Americans, Asian Americans, and American Indians, or Native  
16 Americans and tried to look at -- At any -- At any  
17 differences, because our big differences in smoking rates  
18 and the risk of getting sick if you're a smoker.  
19 And that report tried to explore what was known about  
20 those differences and tried to develop ways to use that  
21 knowledge to better treat different smokers.  
22 Q. 1998, you were a member of the Canadian Expert  
23 Committee on Cigarette Toxicity Reduction?  
24 A. Yes.  
25 Q. What was the nature of that committee?  
26 A. That committee was one that was looking at the  
27 question, if people can't smoke, is there anything that  
28 could be done about cigarettes or cigarette-tobacco-like

2751  
1 products to make them less hazardous? And we addressed that  
2 question, and if so, what can we do, and how could such  
3 products be regulated?  
4 Q. In the Year 2000, 2001, you worked with the World  
5 Health Organization dealing with tobacco?  
6 A. Yes.  
7 Q. You were chair?  
8 A. (No Response)  
9 Q. Of the Safety Section?  
10 A. Yes. That's a web site. That's a world health  
11 organization, and our Nicotine Research Society has put  
12 up --  
13 It's available to anyone that gives the  
14 state-of-the-art opinion about different aspects of smoking  
15 and health. And I was the chairperson of the section on  
16 safety, which talks about different aspects of medications  
17 used to treat smokers and the benefits and risks of those  
18 medications.  
19 Q. From time to time, have you been called upon to



20 testify before committees regarding the subject of nicotine  
21 and addiction?

22 A. Yes.

23 Q. On how many occasions?

24 A. Well, I've -- Testified in front of Food and Drug  
25 Administration committees.

26 I've testified in Occupational Safety and Health  
27 Administration hearings.

28 I was part of an Environmental Protection Agency

2752

1 Committee which looked at passive smoking risks.

2 That's all I can remember right now.

3 Q. Okay. Were you involved in a U.S. Surgeon General's  
4 Report on Women and Smoking in 2001?

5 A. Yes.

6 Q. What was your involvement in that?

7 A. Well, I was responsible for drafting the material on  
8 nicotine addiction in women, and how women might react  
9 differently to nicotine than men. So what's different and  
10 what's common.

11 Q. Do women react differently to nicotine from men?

12 A. Well, there are some differences. There's a lot of  
13 similarities, but there are some differences.

14 Q. You've written in the field that we're talking about,  
15 correct?

16 A. Yes.

17 Q. Can you give us any idea of how many different  
18 articles you have written regarding nicotine and addiction  
19 that have been published?

20 A. Well, all told, there are more than 300 articles.  
21 I would say 80 percent involve nicotine-tobacco-related  
22 issues.

23 Q. So something in the area of 240 to 250 articles  
24 published on these subjects?

25 A. Yes.

26 Q. Okay. And from time to time, have you had occasion  
27 to get involved in matters such as this, a trial, regarding  
28 the subject of nicotine and addiction?

2753

1 A. Yes.

2 Q. Okay. And have you qualified as an expert in those  
3 trials?

4 A. Yes.

5 Q. Let's go back to some of the basics.

6 What is nicotine?

7 A. Nicotine is a chemical. It's a small molecule, a  
8 small chemical -- Which is found primarily in the tobacco  
9 plant or in highest concentrations, although it's also  
10 found, very small amounts, in other plants, even some foods.

11 Nicotine is thought to be present in tobacco as a  
12 protective agent because it's a very potent insecticide.

13 Black leaf 40, for example, is something -- It's a  
14 nicotine solution that people can spray on their roses, and  
15 it kills aphids. It kills insects.

16 Nicotine is a special chemical because its structure  
17 is similar to a substance that's called acetylcholine.

18 Acetylcholine is a chemical or like a hormone in the  
19 body which is responsible for communicating information from  
20 one nerve cell to another nerve cell. So when a nerve  
21 fires, it releases acetylcholine, which then binds to what's  
22 called a receptor on another receptor and activates that  
23 cell. So it's how the brain communicates internally.

24 A receptor is like a -- Like a lock. It's a

25 structure in space that a particular chemical fits into, but  
26 just that chemical fits in, and no other chemical. So it's  
27 like a key fitting into a lock.

28 The lock is the receptor, and the key is the

2754

1 chemical.

2 Well, it turns out because of the way nicotine is  
3 shaped, it fits into receptors that are meant for  
4 acetylcholine. So when a person or an animal gets exposed  
5 to nicotine, it starts activating nerves that are meant to  
6 be activated by acetylcholine.

7 Q. And it has what effect when that occurs?

8 A. Well, it's got a number of effects. In people, the  
9 main effects are to enhance or increase the release of other  
10 hormones -- Mostly in the brain, or certainly in terms of  
11 addiction in the brain -- That have got different  
12 behavioral effect. And it releases many different hormones.  
13 One that's most widely discussed is Dopamine.

14 Dopamine is important because that's the hormone in  
15 the brain that is related to pleasure. So whenever you have  
16 something that's pleasurable, it means Dopamine is released  
17 in the brain, and you're experiencing something that's  
18 related to that Dopamine release.

19 Now, any kind of pleasurable activity causes Dopamine  
20 release. Every drug of abuse causes Dopamine release.

21 What nicotine does is it augments the release. So,  
22 say, if you're doing something that's pleasurable and you  
23 also have a cigarette, you get more Dopamine release than  
24 you would by that pleasurable event by itself. And what  
25 corresponds to that is pleasure, so most people who smoke  
26 cigarettes like them. And, as is true for every other drug.

27 If you use cocaine, you like cocaine.

28 If you use heroin, you like heroin.

2755

1 And if you use alcohol, you like it.

2 And that's mediated by Dopamine.

3 Now, there are other effects that get involved with  
4 things like attention, so there are stimulant effects of  
5 nicotine.

6 There are effects that help you concentrate, and also  
7 effects that reduce anxiety and stress.

8 And there are also hormones that have an effect on  
9 depression, make you less depressed. There are hormones  
10 involved in the appetite, so smokers can smoke cigarettes  
11 and won't be as hungry.

12 So the bottom line is that nicotine releases a lot of  
13 different hormones and do different things for the smoker.  
14 And if you ask the smoker what they get, they don't know  
15 about the hormones. But they tell you that the first  
16 cigarette in the morning stimulates me, gets me going, like,  
17 perks me up. A non-smoker would think about coffee.

18 A smoker will say if I get tired during the day and I  
19 can't concentrate, a cigarette will help me concentrate,  
20 keep me focused, sort of keep me on track.

21 They'll also tell you that if I feel anxious, I'll  
22 feel less anxious. And if I feel stressed, I'll feel less  
23 stress. And if I feel depressed, I'll feel less depressed.

24 And it's also a relaxant. Smokers say a cigarette  
25 before a meal or even before bedtime, it helps me relax and  
26 go to sleep. So a cigarette is how you can use a drug to  
27 really control a drug and your arousal level.

28 And smokers come to rely on that, and smokers who

2756

1 smoked a pack a day say each cigarette is eight puffs, or  
2 eight doses. So a pack a day is like 160 doses of a drug  
3 that you use that can help to control how you feel. And  
4 smokers come to rely on that to help them deal with the  
5 stresses in their life.  
6 Q. How does this nicotine get to the brain?  
7 A. Nicotine -- When you burn a cigarette, nicotine gets  
8 vaporized, sorts of boils out of the tobacco. And it --  
9 And it's carried by particles that are called tar particles:  
10 Tar is water. It's got nicotine, and it has other  
11 sort of substances, some of which are involved in cancer,  
12 but a bunch of other substances in tar particles. And these  
13 particles are carried by gas, and this gas includes air and  
14 carbon monoxide and cyanide. All a lot of different parts.  
15 A person takes a puff, and the smoke goes into the  
16 lung, and very quickly nicotine gets absorbed into the lung  
17 through the bloodstream and into the heart.  
18 Once it gets into the heart, it acts very quickly  
19 through the heart and to the brain. It takes about maybe 10  
20 to 15 seconds from when you take a puff on the cigarette  
21 until the nicotine gets to the brain.  
22 And that, we think, is very important for a couple  
23 reasons.  
24 One is that you can get a high concentration, but you  
25 get it in your bloodstream quickly in a short time. You get  
26 a high level.  
27 It also gets there quickly. So you take a puff, and  
28 it gets an effect right way.

2757

1 And we know from drug abuse in general that there's a  
2 concept called reinforcement, which means that you take a  
3 drug and you get an effect. And if that's a positive  
4 effect, then you take the drug again.  
5 And the shorter the time interval between when you  
6 get the drug and when you get the effect, the more  
7 reinforcing it is.  
8 And 15 seconds is as short as you can get. It's as  
9 short as dosing with an I.V. So people take a puff of  
10 nicotine, and that's the effect. And that's reinforcing.  
11 Another thing it does, it allows people to control  
12 their dose. They can take bigger puffs, smaller puffs,  
13 fewer puffs and get just the amount of nicotine in their  
14 brain to get effect that they want.  
15 And that's why people smoke. They just are smoking,  
16 but if you look at smokers smoking day-to-day-to-day -- And  
17 we've done this in research studies -- An individual smoker  
18 takes in about the same dose of nicotine every single day,  
19 by, by titrating the dose puff-to-puff.  
20 Q. I was going to ask you what titrating means?  
21 A. Titrating is like adjusting, so if you don't have  
22 enough in one puff, you take more the next puff.  
23 If you've got a little bit too much on the first  
24 puff, you take a little bit less on the second puff. So you  
25 adjust your dose to get just the right amount.  
26 Q. So when a smoker says, "I enjoy smoking," based on  
27 your research, they're talking about the feelings they get  
28 from smoking?

2758

1 A. Yes. Smoking -- Nicotine effects, and someone, once  
2 they get past the initial stage of getting sick -- Because  
3 most smokers in the beginning get sick -- Once they get  
4 past the first few cigarettes, most smokers really like the  
5 effects of nicotine, just like they like the effects of

6 every other drug of abuse.  
7 If you're a cocaine user, you love cocaine; you like  
8 it. Doesn't mean that it's not addicting. That's part of  
9 the addiction, really.  
10 Q. You like the feeling?  
11 A. You like the feeling.  
12 Q. Okay. Now, you said before that it was a drug.  
13 How does one define something as being a drug?  
14 A. Well, the Food and Drug Administration has a  
15 definition which I use, and it is a substance other than a  
16 food, or some other substance necessary for life. It's not  
17 air; it's not food -- Which causes functional, or  
18 structural -- Structural changes in the body. It changes  
19 body functions and -- Or changes body structure.  
20 And nicotine does both.  
21 Q. All right. Let me give you an example:  
22 A lot people who are runners talk about a runner's  
23 high, they get a high from running. We -- That's something  
24 that comes naturally from just exercising the body?  
25 A. Right. There are feelings that you can get from your  
26 own body's chemicals, your own body hormones. That's not a  
27 drug effect. That's something that has to do with your  
28 normal control of feelings and emotion.

2759

1 Q. Well, is caffeine a drug?  
2 A. It depends. Caffeine is a constituent of food.  
3 Now, caffeine is also marketed as a drug for specific  
4 indications.  
5 And if you were to, for example, take a Nodoz tablet  
6 to help you stay away, you've taken a drug.  
7 It's arguable, if you add caffeine to a soft drink,  
8 whether that's a drug or a food. But caffeine is natural in  
9 some foods like in chocolate. And there are caffeine  
10 properties in food.  
11 Q. Are caffeine and nicotine similar?  
12 A. Well, they are similar in some cases, and they are  
13 different in some situations.  
14 They are similar, in that they both have a stimulant  
15 effect, so the first cup of coffee in the morning helps  
16 stimulate you. If you're getting tired in the day, you have  
17 a cup of coffee, and that helps keep you going. And same  
18 thing for a cigarette.  
19 They both have some affects on brain hormones, and  
20 some of the same hormones.  
21 What's different about it is that most people who,  
22 say, drink coffee, drink one or two or three cups a day.  
23 Most people, if they need to switch to decaf, the  
24 doctor tells them, and can stop, they might get a headache  
25 for a day or two. But most people can switch and drink  
26 decaf coffee.  
27 There are some people who are addicted in the sense  
28 of not being able to control the caffeine. Those are

2760

1 probably fewer than ten percent of the population, and those  
2 are people who are smoking -- Drinking six or eight or ten  
3 cups of coffee per day.  
4 So most people who use caffeine are not addicted.  
5 They may have a physical dependency, which I can explain  
6 later, but they're not addicted in terms of compulsive use.  
7 In contrast, nicotine -- Well, caffeine goes --  
8 It's absorbed slowly and gets to the brain relatively  
9 slowly. It takes 30 minutes or so.  
10 So the effects are much less intense than the effects

11 of a cigarette. So for nicotine, nicotine gets to the brain  
12 faster. Once you become a regular smoker, most people smoke  
13 throughout the day, every day.

14 You can't -- People will not smoke a cigarette  
15 without nicotine. Coffee drinkers can drink coffee without  
16 caffeine.

17 If doctor says switch to decaf, most people do it.  
18 No one smokes a cigarette without nicotine.

19 Q. Let me stop you for a second. You've done research  
20 now for how many years in the field of nicotine?

21 A. Twenty-seven.

22 Q. And have you looked at this idea of whether people  
23 will smoke without nicotine in cigarettes?

24 A. Yes.

25 Q. You've done actual research on that?

26 A. Well, we are -- I have written about that proposal,  
27 and I'm actually doing some research in that area now, to  
28 see if people can take a lesser amount of nicotine.

2761

1 We know from marketing experiments that people don't  
2 buy cigarettes without nicotine, and no one smokes  
3 cigarettes that are nicotine-free substances.

4 Or -- Unless they have some other active substance.

5 So by history, we know that people don't smoke  
6 tobacco without nicotine.

7 What I've been interested in is the possibility of  
8 whether cigarettes could be -- Could have a lower nicotine  
9 content over many years to make them non-addicting. And  
10 we've done research on that, but no such cigarette exists  
11 like that at the moment.

12 Q. We'll talk a little bit more about that in a second.

13 What got you involved in doing research in the field  
14 of nicotine?

15 A. Well, it had to do with the circumstances of my  
16 training, which was in medicine, heart disease and drugs. I  
17 was -- My fellowship, I studied drugs that were used to  
18 treat heart arrhythmias. My first job was actually working  
19 on a research project, actually studying the effects of  
20 marijuana on the heart, so doing research studies trying to  
21 see what marijuana did to heart functions.

22 And when I was doing that, I thought, well, this is  
23 interesting work, but marijuana is not a major health  
24 problem in the way that smoking is. And it's -- My  
25 interest is really cardiovascular disease, and so what I  
26 should be doing is not studying marijuana but cigarettes.

27 So I took what I learned about studying a smoked  
28 drug, which was marijuana, and I translated that, and I set

2762

1 up a laboratory. My laboratory was one of the first in the  
2 world to measure nicotine levels in people, and I --

3 We just said, okay, let's study nicotine and  
4 cigarettes as a potential way to prevent heart disease.

5 Q. And it's a -- An area that you've continued in for  
6 these 27 years, I think you said?

7 A. Yes.

8 Q. How much of your time is spent dealing or work or  
9 researching in the area of nicotine?

10 A. Well, my research is about 40 percent of my time. Of  
11 course, I have some patients who I have to deal with as well  
12 who are smokers, but my research takes about 40 percent of  
13 my time.

14 Q. When you say you have a patient load that includes  
15 smokers, what's the nature of your patient load?

16 A. I seek two kinds of patients mostly.  
17 One is for one-half day a week, I have a general  
18 cardiology clinic. So it's like a practice, but it's at the  
19 county hospital. And I see heart-disease patients with high  
20 blood pressure, with coronary disease, with heart failure,  
21 with all kinds of heart-disease problems.

22 And then, I also spent two months as being sort of  
23 the -- The physician in charge of one of the wards, one  
24 month in general medicine ward and one month in a  
25 cardiovascular disease ward, where I work with patients and  
26 residents, patients who are admitted to the hospital with  
27 serious illness.

28 In my clinic and on the ward, cigarette smoke is a  
2763

1 big issue. Cigarette smoking is the number-one preventable  
2 cause of heart disease, and therefore, I have to work with  
3 all my heart-disease patients who are smokers and try to get  
4 them to quit.

5 On an inpatient service, we see many patients who  
6 have heart disease, lung disease, emphysema and cancer, and  
7 smoking is a major cause of those as well. So we have to  
8 put in a fair amount of effort in talking to patients to try  
9 to get them to quit smoking to try to protect their health.

10 Q. And in dealing with your patients and in doing this  
11 research, have you researched into the area of -- The  
12 effect of nicotine on the human body?

13 A. Yes.

14 Q. Okay. And you published, I think you've already  
15 indicated, dealing with certain of those areas -- Correct?

16 A. Yes.

17 Q. You touched on it earlier.

18 You said you're looking into or have looked into how  
19 men and women differ in -- In response to nicotine,  
20 correct?

21 A. Yes.

22 Q. Let's talk about men. How do men differ? What is it  
23 that makes them different in reaction?

24 A. Men from women?

25 Q. Yes.

26 A. Well, it's a little bit complicated. But --

27 Q. See if you can make it less complicated.

28 A. Men -- Women, all are more influenced by situational  
2764

1 factors, as well as nicotine, in their smoking behavior as  
2 compared to men.

3 Let's see if I can --

4 Q. Maybe you can give us an example.

5 A. For example, stress or feeling anxious will have a  
6 bigger effect on a woman's smoking behavior than it would on  
7 a man's smoking behavior.

8 Both men and women tend to control their nicotine  
9 levels. Men tend to control it more precisely than women  
10 do, because the women are influenced by other things.

11 Women are also influenced by the menstrual cycle, so  
12 they tend to smoke more in parts of the cycle as compared to  
13 other parts of the cycle.

14 Depression is a major factor in smoking behavior. If  
15 you have depression, you're more likely to smoke; you're  
16 more likely to smoke more. It's harder to quit. And when  
17 you do quit, you have more symptoms when you try to quit.

18 And depression is much more common in women than men,  
19 and so depression is linked to smoking more in women than  
20 men.

21 Body weight is an issue in women more than men.  
22 Smokers weigh, on average, seven pounds less than  
23 non-smokers, and that's because of the effect of nicotine.  
24 And when you quit smoking, on average, you gain those seven  
25 pounds back.

26 Now, some people gain more; they gain 20. And many  
27 teenage girls start smoking in part because they want to  
28 control their body weight, stay slim. That's a very popular  
2765

1 image, and so another factor for women is use of cigarette  
2 smoking to stay slim.

3 So those are some of the differences.

4 Q. In doing this research on nicotine, sounds like  
5 you've touched on a number of areas in your research over 27  
6 years.

7 A. Yes.

8 Q. And have you received grants for doing some of this  
9 work?

10 A. Yes.

11 Q. What is a grant?

12 A. A grant is an award of a certain amount of money that  
13 is given to conduct research that you propose. So I would  
14 submit a grant application, which is a proposal, saying I  
15 would like to do these research studies. And I would send  
16 them to a government agency or some other agency, and there  
17 would be a review panel who would look at it and say that  
18 you should be funded or not.

19 Q. What are some of the agencies that have funded your  
20 research into nicotine and it's effect?

21 A. I've been funded by the National Institute on Drug  
22 Abuse, National Cancer Institute, Heart Lung and Blood  
23 Institute. Environmental protection Agency.

24 And there's a recent grant I got from the Flight  
25 Attendant Medical Research.

26 Q. And has part of your medical research on the effect  
27 of nicotine also dealt with the area of addiction?

28 A. Yes.

2766

1 Q. You said before nicotine is addicting?

2 A. Yeah.

3 Q. First, how does one define addiction?

4 A. Okay. Well, I -- I'll give you two definitions.  
5 One is a little bit of a technical definition, and one a  
6 common-sense one.

7 On the technical one, which is the one that we've  
8 developed in the Surgeon General's Corps, is the compulsive  
9 use of a psychoactive drug that is reinforcing.

10 What that means, "compulsive use" means that you use  
11 a drug and you have difficulty controlling its use. You're  
12 not using it when you don't want to use it. (sic)

13 Psychoactive drug means a drug that affects your mood  
14 or your thinking, some brain function.

15 And reinforcing means that your use of the drug is  
16 determined by the effect of that drug. For example, you  
17 could compulsively use coffee, but it was decaf coffee, you  
18 couldn't say it was caffeine addiction unless it was  
19 caffeine that determined the use.

20 For tobacco, we know people just don't smoke  
21 cigarettes, so it's not just cigarette addiction independent  
22 of nicotine. They only smoke cigarettes containing  
23 nicotine, so nicotine is reinforceable. Now that's the  
24 technical definition.

25 Now, the common definition is loss of control of drug

26 use, which means that if a person wants to change their drug  
27 use or stop, it's hard to do so.

28 It's not impossible, but it's difficult.

2767

1 And that is really the common, bottom-line definition  
2 for all drug addiction.

3 Q. Are there actually publications that talk about  
4 definitions of addiction?

5 A. Yes.

6 Q. What are some that give definitions of addiction?

7 A. Well, definitions have been given by -- Well, in the  
8 Surgeon General's report, the World Health Organization,  
9 you've got some definitions.

10 There are some criteria, a little bit different in  
11 definition presented by the American Psychiatric  
12 Association.

13 And then there are other agencies that have also --  
14 There is a Canadian group that I think also has published  
15 some addiction definitions.

16 Q. Do you have occasion from time to time to evaluate  
17 people who were using nicotine to determine whether or not  
18 they're addicted?

19 A. Yes.

20 Q. Tell us about your background in that area.

21 A. Well, I do it in two ways:

22 First of all, part of the research that I do is to  
23 understand factors that determine or predict addiction.

24 We've been looking at metabolism factors and genetic  
25 factors, and so we do extensive questionnaires on smokers  
26 who try to figure out why they smoke, how they smoke, and et  
27 cetera. So I use -- I try to collect information in my  
28 research studies. And then, as I said before, in my

2768

1 patients.

2 When I have a patient who smokes cigarettes and I  
3 want them to quit smoking, I start talking to them about  
4 their smoking, I start talking about their smoking patterns,  
5 about the kind of cigarettes that they smoke.

6 I try to get an idea of what I can do to help them  
7 quit.

8 Q. In doing this work, have you developed any aid or  
9 documents to assist you, like questionnaires and things of  
10 that sort?

11 A. Yes.

12 Q. Tell us about that.

13 A. Well, it's not really a questionnaire in the sense  
14 of -- An instrument that is scored.

15 What people often talk about in psychology is a  
16 questionnaire that you take, say it's like a driving test.  
17 You know, you answer the questions, you get a score.

18 Mine is really like an interview guide. It's a  
19 number of questions that I have put together that asks about  
20 smoking behavior.

21 MR. GROSSMAN: Your Honor, may we approach.

22 THE COURT: Yes.

23 (At Bench)

24 MR. GROSSMAN: Your Honor, this touches upon -- I'm  
25 sorry.

26 MR. PAUL: Thank you.

27 MR. GROSSMAN: Your Honor, this is a particular area  
28 that we dressed in a motion in limine.

2769

1 Briefly, the questionnaire that Dr. Benowitz is



2 referring to, first of all, was developed for litigation  
3 purposes and only for litigation purposes.  
4 Secondly, the responses to the questionnaire were  
5 typed in Mr. Brown's office, the attorney's office.  
6 Dr. Benowitz does not know whether Mr. Lucier answered the  
7 questions or Mr. Brown answered the questions or both.  
8 They're not -- They're not generally acceptable under the F  
9 reie standards. They are not -- And furthermore they're  
10 not reliable under any circumstances. And they're hearsay.

11 MR. PAUL: I haven't even asked that.

12 MR. GROSSMAN: But this is the predicate to that.

13 THE COURT: Where are you going with this?

14 MR. PAUL: Well, basically, how he goes about  
15 determining, based on his background, training and  
16 experience, how one is addicted. He developed, he says --  
17 It's not a scientific --

18 THE COURT: Shall we put this on the record now?

19 Take a break?

20 MR. GROSSMAN: Yeah, I think so.

21 MR. PAUL: Sure, whatever your Honor wants to do.

22 THE COURT: Okay, fine.

23 ---o0o---

24 THE COURT: We're going to take a break here. Please  
25 don't discuss the case. Come back at 3:30. 3:30.

26 (The jurors depart at 3:15 pm.)

27 ---o0o---

28 MR. PAUL: There is an easy solution to this. I am  
2770

1 not going to show the questionnaire. I'm not going to keep  
2 going into the questionnaire. I'm just trying to figure out  
3 what his process is, for him, to develop information on  
4 which he reaches conclusions about whether or not someone is  
5 addicted.

6 THE COURT: Okay. So where --

7 MR. PAUL: That was almost the --

8 THE COURT: Was that it?

9 MR. PAUL: Yes.

10 THE COURT: What about Mr. Lucier? Are you going to  
11 bring in evidence about his use of a questionnaire with  
12 respect to --

13 MR. PAUL: No, I'm not going to be talking about the  
14 questionnaire at all.

15 THE COURT: So this is a non-issue at this point?

16 MR. PAUL: Yeah, that's what I was trying to say.

17 THE COURT: That's all right.

18 MR. PAUL: It's okay, Judge. It's probably about  
19 good time for a break.

20 THE COURT: Well, it was time for a break, about time  
21 for a break, so 3:30 sharp.

22 MR. PAUL: Okay.

23 (3:15 pm)

24 ---o0o---

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2771

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(Nothing omitted page 2771.)

(Nothing omitted page 2771.)

(Nothing omitted page 2771.)

index i

C H R O N O L O G I C A L I N D E X  
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Page

Friday, November 8, 2002	2652
Opening statement continued by Mr. Grossman	2655
Opening statement by Mr. Barron	2700
Friday, November 8, 2002, P.M. Session	2718
Opening statement by Mr. Barron continued	2719
Witnesses for the Plaintiff:	
NEAL BENOWITZ	
Direct Examination by Mr. Paul	2737
---	

index ii

E X H I B I T S I N D E X  
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Plaintiff's			
No.	Description	I.D.	I.E.
1	William Dunn report re		
	Smoking Incentives		2793
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2772

1 THE COURT: Okay. Bring the jury in, please.  
2 (The following proceedings were then had in open court in  
3 the presence of the jury.)  
4 THE COURT ATTENDANT: Please be seated and come to order.  
5 Court is again in session.  
6 THE COURT: Okay. Mr. Paul.  
7 MR. PAUL: Thank you very much, your Honor.  
8 Q (By MR. PAUL) Dr. Benowitz, when we broke I was asking  
9 you about the process that you go through in evaluating whether  
10 people are addicted. Do you recall that?  
11 A Yes.  
12 Q And I think you said that you have sort of a checklist or  
13 something that you go through in assisting you in that process?  
14 A Yes.  
15 Q Okay. Now, how long have you been doing this evaluation  
16 of people to determine whether or not they're addicted?  
17 A Well, I think we've been doing this in our research since  
18 the seventies.  
19 Q Okay. And in doing these evaluations, has part of your  
20 research also attempted to evaluate when people become  
21 addicted?  
22 A Yes.  
23 Q Tell us about that. What is that -- first, that concept  
24 when someone gets addicted. Does it take time to addict  
25 someone to nicotine?  
26 A Yes. Most people who start smoking start smoking before  
27 the age of 20. Like 90 percent of people start before the age  
28 of 20. When people start smoking they start smoking mostly

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1 because their friends smoke, or there's some peer involvement,  
2 or their parents smoke sometimes, brothers and sisters, but  
3 they smoke for social reasons. They smoke with friends. They  
4 smoke socially.  
5 As a person continues to smoke -- some people have  
6 reactions, they cough, they don't like it, and they have one or  
7 two cigarettes and never smoke again. But if you get past the  
8 first few cigarettes so that you're not sick anymore, then  
9 people begin to experience the drug effects of nicotine.  
10 And then what happens is people are not only smoking  
11 socially but they also start feeling, well, the cigarette is  
12 doing something to me; it's giving me a lift or stimulating me  
13 or helping me deal with stress or anxiety. And in time there  
14 is a transition. So people begin to smoke not just in social  
15 situations but when they're alone, when they -- they need a

16 lift or when they're feeling down. And that transition from  
17 smoking in social situations to smoking for the drug effect is  
18 the beginning of addiction.  
19 Now, addiction itself is a process that takes years to  
20 develop in its full form. Because it's not just a drug effect,  
21 it's also having the experience many times over. You come to  
22 learn that the experience is associated with a taste, so you  
23 come to like the taste and the smell. You smoke in certain  
24 situations, like after a meal or when you're stressed. And  
25 links develop, so it's what we call conditioning, and pretty  
26 soon the whole complex of smoking, not just the pharmacological  
27 effect but the taste and the smell and the situations all  
28 become part of your behavior, and that whole process of

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1 addiction takes several years.

2 Now, it turns out that the behaviors, the condition  
3 parts, don't last if you don't have nicotine. So that the  
4 taste and the and the smell and whatnot are pleasurable to you  
5 because they're linked with nicotine. But if you take nicotine  
6 out of the cigarettes people don't keep on smoking, they stop.

7 Q Now --

8 A But -- but --

9 Q I'm sorry.

10 A It's that process, and it takes a couple years. I would  
11 say when a person is smoking for pharmacologic effects is the  
12 beginning of addiction.

13 Q Okay. Thank you. I'm sorry for interrupting.

14 Now, do individuals vary on this subject of addiction?  
15 I mean is there an individuality to whether someone becomes  
16 addicted or not?

17 A Yes. And that's -- this is something that we have been  
18 studying a lot. There are at least several factors that we  
19 know about. We have been doing twin studies. So you study  
20 behaviors in twins, identical twins and non-identical twins,  
21 and you see how alike they are. These are twins who are grown  
22 up and living apart. And it turns out that if you become a  
23 smoker -- I should step back.

24 If identical twins do some behavior alike and  
25 non-identical twins don't, that suggests that it's genetic. It  
26 has to do with your genes, your DNA. So it's the genetic  
27 material you're born with. And whether you become a smoker has  
28 got a lot of genetic factor to it. How much you smoke. Some

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1 people are very light smokers, they smoke five cigarettes a day  
2 or fewer. That's genetic. If you're a really heavy smoker,  
3 that's partly genetic. Whether you can quit is partly  
4 genetic.

5 Now, the explanation for this we don't know for sure, but  
6 part of it has to do with differences in the receptors in the  
7 brain. Because each person has a different combination of  
8 these nicotine receptors. And in -- in animal studies -- we  
9 don't do this in people -- but in animals, if you change the  
10 nature of the receptors in the brain by doing some what's  
11 called genetic engineering then you change how much nicotine  
12 the animals will take. So we think humans vary in terms of the  
13 genes in the brain. That's one factor.

14 There are also other things like -- some personality  
15 things. Like depression. As I mentioned before, if you have a  
16 history of depression, you're more likely to smoke and it's  
17 harder for you to quit. Alcohol abuse. If you have an alcohol  
18 abuse problem, then it's -- then you're much more likely to

19 become a smoker and it's much harder for you to quit.  
20 The way it turns out is that there are big differences.  
21 There are some people who can smoke two packs a day for 30  
22 years and quit cold turkey and not blink. Unfortunately, there  
23 are not many like that. Most people even smoking many fewer  
24 find that when they try to quit it's difficult and it takes  
25 them on average four or five times. But there's a lot of  
26 variation, and we're trying to figure out why.

27 Q Okay. So when you look at this addiction picture it's  
28 not just black and white, you have to look at the individuals

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1 involved as well?

2 A Yes.

3 Q Okay. Now, as a -- as a drug and as an addicting drug,  
4 is nicotine what you might call highly addicting?

5 A Yes. It is as highly addictive as any of the drugs of  
6 abuse. Now, that's not to say it's not different. But it's  
7 addictive in the sense that -- if you look at the total number  
8 of people who use a drug, first, there's the number of people  
9 who are addicted or dependent on it. For alcohol, about 15  
10 percent of alcohol users are addicted to alcohol. For heroin  
11 and cocaine the figures are harder to find, but it's probably  
12 50 percent. So half of heroin and cocaine users only use  
13 occasionally. For smokers it's about 80 or 85 percent of  
14 smokers who smoke are addicted. So in terms of the chances of  
15 being addicted if you use a drug, smoking is actually the  
16 highest.

17 If you look at other things, like the chances of  
18 quitting, if you go into a treatment program, are no different  
19 for smoking versus heroin addiction versus alcohol addiction.  
20 So, again, from that criterion, smoking is just as addictive or  
21 more addictive.

22 Now, there is one difference which is important to note,  
23 and this is an important difference. Drugs like heroin,  
24 cocaine and alcohol do some negative things to behavior in the  
25 short-term. You get intoxicated, you get loaded, you can't do  
26 your job right, so it impairs your function.

27 Nicotine doesn't do that. You can smoke a cigarette, you  
28 can work, you can do whatever you're doing. And that's

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1 probably what makes nicotine even more addictive, because you  
2 can take it all day long, you can take whatever doses you want.  
3 And it doesn't have a down side like you get -- you lose your  
4 coordination or you fall asleep. So that actually makes  
5 nicotine more -- the fact it's not intoxicating makes it more  
6 addictive.

7 Q Okay. Just carrying on that thought for just a second,  
8 it's true that alcoholism can be a problem and a serious  
9 problem, correct?

10 A Yes.

11 Q It can disrupt family lives, it can disrupt work, all the  
12 things that you've been talking about, correct?

13 A Yes.

14 Q Okay. And because of that there's a certain social  
15 stigma that goes along with that?

16 A Yes.

17 Q Okay. From the standpoint of smoking, in your research  
18 have you found that same social stigma?

19 A Well, it's different. There is not the same social  
20 stigma that goes along with, say, showing up drunk for work, or  
21 missing days because you happen to have a hang over.

22 Social stigma is more related to within families and one  
23 person doesn't want someone else to smoke and there's that kind  
24 of pressure. There are issues about not smoking in the  
25 workplace, but it's not the same sort of thing. It's not  
26 disruptive to your performance in a family or in your job. You  
27 can do whatever you want to do. So it's not -- it's a  
28 different kind of stigma. It really has to do with just

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1 specific situations where you can't smoke.

2 Q Okay. Now, you talked about people quitting.

3 A Yes.

4 Q Can people quit smoking cigarettes?

5 A Well, they can but it's tough. If you look at national  
6 data, most surveys indicate that about 70 percent, that seven  
7 out of ten smokers, would like to quit. Each year about 30  
8 percent, or three in ten, make a quit attempt lasting at least  
9 one day. But only three percent of all smokers, or one in ten  
10 who try, is successful.

11 So that means that you can quit, and many smokers have  
12 quit, but it usually takes four or five quit attempts before  
13 you succeed. So it takes a lot of effort. Some people quit on  
14 the first attempt and some people never seem to be able to  
15 quit. And for those -- there's a lot of research going on now  
16 in what's called harm reduction -- for people who can't quit,  
17 is there some way to make cigarettes less harmful.

18 Q How about motivation? How does motivation fit into  
19 people quitting this addiction?

20 A Well, you have to understand what "motivation" means.  
21 It's not something that just sort of comes to you out of the  
22 sky. Motivation has to do with a balance of factors.  
23 Motivation occurs for reasons. Like if you're concerned about  
24 your health, that's a motivating factor. We know, for example,  
25 that having a heart attack is the best way to get someone to  
26 quit smoking. 50 percent of smokers quit after a heart  
27 attack. That's the good part. The bad part is that 50 percent  
28 still smoke, knowing that a heart attack -- that their smoking

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1 could cause another heart attack in the near future. But at  
2 least 50 percent quit. That's a motivating force.

3 Family pressure is a motivating force. Cost of  
4 cigarettes could be a motivating force. Those are all things  
5 that are a part of motivation to quit.

6 Now, opposed to that is the level of addiction. The more  
7 addicted you are, then that kind of sort of counterbalances  
8 motivation. And the net result of these various forces is what  
9 a person perceives as motivation. So if the things making you  
10 quit get really, really strong, then you're more motivated and  
11 ultimately you quit.

12 Q How about the concept of risk? You sort of touched on  
13 it. The fact that there's knowledge, understanding that  
14 there's a potential risk from smoking. You used the example of  
15 a heart attack. The doctor tells you don't do this anymore, it  
16 may do the same thing to you. How does that play into people  
17 stopping their addiction?

18 A Well, health risk is certainly an important factor.  
19 However, there's an interaction between the addiction and  
20 perception of risks. This is true for any addiction. When  
21 you're addicted you want to try to keep on using the drug. And  
22 if -- if you're a rational person, you don't want to be doing  
23 something that is harmful to yourself, you want to find a way  
24 that to keep on doing it in a way that makes sense.

25 MR. GROSSMAN: Your Honor, could we approach?  
26 (The following bench conference was then had.)  
27 MR. GROSSMAN: This is beyond the witness'  
28 qualifications. We would seek to voir dire him on risk  
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1 perception and psychiatry if -- if he's going to go into this.  
2 He's not a psychiatrist. Not only is he not board-qualified  
3 but his testimony is he isn't eligible to be --  
4 MR. PAUL: His area of risk perception --  
5 MR. GROSSMAN: Risk perception is different.  
6 MR. PAUL: If someone understands the risk, like someone  
7 who's had a heart attack, how does that impact someone  
8 quitting.  
9 THE COURT: Is this an area that you're going to explore  
10 at some length now or what?  
11 MR. PAUL: No. I was just touching on this area and I  
12 was going to move on. I'm not sure what the objection is.  
13 THE COURT: Do you have any more examination in this  
14 area? The question for me is whether or not I should permit  
15 him to voir dire on qualifications on this limited issue at  
16 this point.  
17 MR. PAUL: Whether he has background? He's a member of  
18 the Department of Psychiatry.  
19 THE COURT: I appreciate all of that.  
20 MR. PAUL: No. I'll move on to a different subject.  
21 THE COURT: Okay.  
22 MR. PAUL: Make it easier, if that's all right.  
23 THE COURT: Okay.  
24 (Bench conference concluded.)  
25 Q (By MR. PAUL) Are you familiar with the term  
26 "rationalization"?  
27 A Yes.  
28 Q What is rational --  
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1 MR. GROSSMAN: Objection, your Honor. Same objection.  
2 THE COURT: Approach the bench again.  
3 (The following bench conference was then had.)  
4 THE COURT: What do you -- are you asking to voir dire  
5 him on qualifications on this issue?  
6 MR. GROSSMAN: Well, rationalization, again, is a  
7 psychological or psychiatric matter. It is not a question of  
8 the pharmacology that this witness is, we agree, qualified to  
9 talk about.  
10 MR. PAUL: He's more than a pharmacologist. My God.  
11 He's already testified about his addiction. Expertise, he's a  
12 world-renowned expert.  
13 MR. GROSSMAN: He was not designated on this matter --  
14 MR. PAUL: Yes, he was.  
15 MR. GROSSMAN: -- whether people -- whether people  
16 rationalize their conduct. What he was designated to talk  
17 about was addiction as such in his area of expertise, which on  
18 one hand is cardiology and clinical pharmacology.  
19 THE COURT: It seems to me that his general  
20 qualifications, those stated at the outset, would be a  
21 sufficient qualification for him to be discussing these  
22 issues. I'm going to give you an opportunity to provide some  
23 further specific foundation on these at this point in time.  
24 MR. PAUL: All right.  
25 THE COURT: But I'm not -- I don't think it's appropriate  
26 and I would not exercise my discretion -- in view of his  
27 earlier testimony which seems to be me to be adequate

28 already -- to interrupt his testimony for any substantial voir  
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1 dire as to his qualification.

2 You can reserve that issue and discuss it when you engage  
3 in your cross-examination. But as a discretionary matter now,  
4 I think some further specific foundation may be appropriate,  
5 but we're not going to interrupt for extended voir dire.

6 MR. PAUL: Thank you, your Honor.

7 (Bench conference concluded.)

8 Q (By MR. PAUL) Dr. Benowitz, in your background in your  
9 work in addiction over the last 27 years, have you been  
10 involved in analyzing addiction from the standpoint of -- well,  
11 let me go back a step.

12 You indicated earlier you were a member of the Department  
13 of Psychiatry; is that correct?

14 A Yes.

15 Q I think you said that you actually lecture psychiatrists  
16 on the subject of addiction, correct?

17 A Yes.

18 Q What is the nature of the lecturing that you do with  
19 psychiatrists?

20 A Well, I talk in a way very similar to the way I've been  
21 talking in this court today about what nicotine does to the  
22 brain and how it affects behavior.

23 Q Okay. You talked about that before, being involved in  
24 behavioral sciences, correct?

25 A Yes.

26 Q How humans behave in response to certain stimuli or  
27 input.

28 A Yes. Addiction is a phenomenon that is a combination of  
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1 interaction of a drug effect and the behavioral responses to  
2 that, and they're interactive and they're not really separated.  
3 Behavior is determined by physiology or -- that's like the  
4 body's response. And drugs cause a change in body physiology  
5 and they affect behavior. So you can't study addiction without  
6 talking about behavior, studying behavior.

7 Q So when we talk about things like motivation, that's  
8 behavior, correct?

9 A Yes.

10 Q The type of thing you talk about when you're lecturing  
11 people who are becoming psychiatrists, correct?

12 A Yes.

13 Q Okay. And it's part of what you've studied over the  
14 years, correct?

15 A Yes.

16 Q And if I use the term "rationalization," do you know what  
17 that term means?

18 A Yes.

19 Q Have you lectured psychiatrists on this subject behavior  
20 and rationalization?

21 A I have lectured about that, yes.

22 Q Okay. And these are people who are becoming  
23 psychiatrists, correct?

24 A Yes.

25 Q Okay. What is rationalization?

26 A Well, one of the, in a sense, definitions of drug  
27 addiction is when a person is doing something -- I was taking a  
28 drug -- when it is doing something harmful to them. So even  
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1    though they're a rational person, they're doing something which  
2    is potentially harmful.

3           Now, that -- -- that's not logical for a person to do  
4    that. And so the way a person deals with that is they say --  
5    they change the consequence or they perceive the consequence  
6    differently. They say, Well, it's not really as bad as other  
7    people think. Or for smokers it's common to say, I feel good  
8    now. I'm not sick. Smoking might hurt someone else but it's  
9    not hurting me, and therefore I'm okay. Or they say, Smoking  
10   is bad for you if you smoke 20 years, but I'm only going to  
11   smoke for five years; therefore, it's okay to me.

12           So they're doing something to rationalize so that their  
13   behavior makes sense to them. Because otherwise it wouldn't  
14   make sense to be doing something if you think it's going to  
15   kill you.

16           And that's what rationalization means. And that occurs  
17   not just in smoking, but it occurs with any drug addiction.  
18   People try to do something to make their behavior make more  
19   sense to themselves.

20   Q       And how does that impact a person's desire to quit  
21   smoking based on your background, training and your research?

22   A       Well, what it does -- and there's a lot of research on  
23   this -- is that many smokers think that smoking is not as bad  
24   as other people do. Or they do things like I just say, they  
25   minimize the risks. Either they say it's going to happen later  
26   on, or I'm feeling good now, and therefore the health hazards  
27   are not so compelling to them. They're not worried about them  
28   now because they don't think it applies to them. And that

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1   reduces the motivation. Because health concerns are one part  
2   motivator.

3   Q       Are you familiar with the term "denial"?

4   A       Yes.

5   Q       Does denial play a part in motivation to stop smoking --

6           MR. GROSSMAN: Your Honor --

7           MR. PAUL: -- for someone who's addicted?

8           MR. GROSSMAN: -- the form of these questions is

9   leading.

10          THE COURT: Overruled. He's an expert.

11          THE WITNESS: Denial is very similar. That just means  
12   that -- that your -- you don't believe something that would be  
13   bad for you to believe. Like you don't believe smoking is bad  
14   for you. So you say well, there's a controversy about it and  
15   therefore I don't believe that it's a problem.

16          So, you know, it's like rationalization but it's a  
17   specific kind of rationalization where you say I don't think  
18   that this is really true, and therefore I don't have to change  
19   my behavior in response to it.

20   Q       (By MR. PAUL) Would it be true if somebody wants to quit  
21   smoking they can quit smoking?

22   A       What was the question again?

23   Q       If someone wants to quit smoking they can do it.

24   A       Uh, well, for the most part that is true, although it  
25   takes smokers many times, many attempts to do and it, often a  
26   long time, years.

27          Like I said before, some people seem not to be able to  
28   quit. Now, anyone can if you take them out of the their

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1   environment. If you put someone in jail and don't give them  
2   cigarettes, anyone can quit. So anyone could. But in their  
3   own environment, most people we think can with appropriate

4 encouragement and treatment and time, and probably some can't.  
5 Q What I'd like to do now is give you a hypothetical of the  
6 smoking history of Mr. Lucier and get your opinion about if  
7 he's addicted and when he became addicted. All right?  
8 A Okay.  
9 Q I want you to assume that Mr. Lucier had his first puff  
10 on a cigarette at age seven; that it was a shared cigarette  
11 with two or three other friends.  
12 Would you assume that for me?  
13 A Yes.  
14 Q I want you to assume that his next encounter with smoking  
15 was at age 11 when he was smoking one or two cigarettes per  
16 day.  
17 Assume that for me?  
18 A Yes.  
19 Q I want you to assume by age 13, now in the seventh grade,  
20 he was smoking five cigarettes per day.  
21 Would you assume that for me?  
22 A Yes.  
23 Q I want you to assume by age 14, he's entering high  
24 school, he is smoking ten to twelve cigarettes per day.  
25 Assume that for me?  
26 A Yes.  
27 Q Okay. I want you to assume by the time he reaches age 16  
28 he is now smoking one pack per day.

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1 Would you assume that for me?  
2 A Yes.  
3 Q I want you to assume that at age 16 that there is a  
4 seven-month period during roughly that year where he did not  
5 smoke at all.  
6 Would you assume that for me?  
7 A Yes.  
8 Q That after those seven months he went back to smoking one  
9 pack per day.  
10 Would you assume that for me?  
11 A Yes.  
12 Q Okay. Let me stop there and ask you a question.  
13 The fact that someone stops for seven months -- at this  
14 point in time I want you to assume he's in a seminary where  
15 they wouldn't allow him to smoke -- the fact he stops for seven  
16 months, does that indicate to you that he is by that fact alone  
17 not addicted?  
18 A No.  
19 Q Why not?  
20 A Well, it's like the situation that I mentioned about  
21 taking people out of their normal environment. I've done  
22 research studies where I've put smokers on research ward, and I  
23 pay them to be volunteers, and for periods of time they can't  
24 smoke for as long as a week or two. And most of them do okay  
25 because they're out of their natural environment, they don't  
26 have the normal stresses, they don't have the normal  
27 interactions. And many even say that I want to quit in the  
28 hospital, but as soon as they get back in their home

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1 environment with their friends and their normal stresses of  
2 life they start smoking the next day and they're back to their  
3 usual level.  
4 The same thing could happen with an addicted smoker in a  
5 situation like this. He goes off to school and the school  
6 rules are you can't smoke and he doesn't have access to

7 cigarettes very easily. It's quite conceivable and not  
8 surprising that he could quit for a period of time but as soon  
9 as he got back to his other situation and his friends and the  
10 environment that he go right back to smoking and begin smoking  
11 in an addictive way.

12 Q All right.

13 MR. GROSSMAN: Your Honor, I need to approach the bench.

14 THE COURT: All right. Please don't overhear our  
15 conversation.

16 (The following bench conference was then had.)

17 MR. GROSSMAN: My understanding of the rules of evidence  
18 and the substantive law of California doesn't allow an expert  
19 to testify as to what is conceivable under these circumstances  
20 but to a reasonable degree of likelihood. And he's not  
21 testifying in that regard. With regard to the hypothetical or  
22 with regard to Mr. Lucier, he's speculating.

23 The last question and answer -- I think the last question  
24 called for speculation and got speculation as the response.  
25 It's -- the answer was phrased in terms of it's conceivable  
26 that this happened, it's possible that that happened. It  
27 wasn't in terms of any likelihood.

28 THE COURT: Is he answering in terms of medical

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1 probability?

2 MR. PAUL: No. I wasn't -- I didn't ask him an ultimate  
3 question. I just asked him based on background and experience  
4 can someone take a break from smoking and still remain  
5 addicted. That's all I asked.

6 THE COURT: I'll overrule the objection. You can  
7 proceed.

8 MR. GROSSMAN: Okay.

9 MR. PAUL: Thank you, your Honor.

10 (Bench conference concluded.)

11 Q (By MR. PAUL) Now, I want you to assume further that  
12 Mr. Lucier has indicated during that seven-month period that he  
13 didn't feel the withdrawal effects, if I can use that term.

14 Do you understand what I'm saying when I say "withdrawal  
15 effects"?

16 A Yes.

17 Q Are you familiar with withdrawal effects in people who  
18 try to stop?

19 A Yes.

20 Q I think I should ask you at this point, what kind of  
21 withdrawal effects are you familiar with with people  
22 withdrawing from using cigarettes?

23 A Well, another part of addiction which I didn't talk about  
24 is what happens when you quit, when you stop. When the brain  
25 is exposed to nicotine over time it changes, it adapts to  
26 nicotine, and the brain becomes dependent on nicotine to  
27 function normally.

28 And then when a person stops smoking a person feels

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1 effects that are the opposite of the effects I talked about  
2 before. So instead of feeling stimulated, they feel lethargic;  
3 they have no energy; they're fatigued. Instead of feeling  
4 good, they may feel anxious; they may feel depressed; they  
5 can't concentrate; they can't focus; they get irritable and  
6 cranky. Those are some of the things people have when they  
7 quit smoking.

8 There are also some long-term effects for long-term  
9 smokers that are -- that can last for months, and that's what's

10 been called Anadonia Syndrome, which means it's a problem  
11 experiencing pleasure properly. So they feel mildly depressed  
12 and not normal and things are just not fun. And that can last  
13 for months. And someone six months later can have a cigarette  
14 and all of a sudden they feel normal. So the withdrawal state  
15 can last for quite a long time.

16 But, you know, on the other hand not everyone has  
17 withdrawal symptoms. Like I say, some people can quit smoking  
18 and don't seem to have any. We don't know why that is the  
19 case.

20 Q Well, I want you to assume that in this case Mr. Lucier  
21 has testified he did not have withdrawal symptoms for the seven  
22 months.

23 Would you assume that for me?

24 A Yes.

25 Q I want you to assume that after he completed the seminary  
26 period he went back to smoking one pack a day and continued to  
27 smoke one pack a day until age 49, or 1999, when he was  
28 diagnosed with having cancer.

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1 Would you assume that for me?

2 A Yes.

3 Q Okay. I want you to assume that after that period of  
4 time he continued to smoke cigarettes and that he continues to  
5 smoke cigarettes to today. He still smokes one to three  
6 cigarettes per day after he was diagnosed with brain cancer.

7 Would you assume that for me?

8 A Yes.

9 Q Okay. Based on that hypothetical, do you have an opinion  
10 of when, if ever, Mr. Lucier became addicted to cigarettes?

11 A Well, I think he became addicted sometime between 11 and  
12 14 years old.

13 Q Why do you say that?

14 A Because --

15 Q And is that with reasonable medical probability?

16 A Yes.

17 Q Okay. Why do you state that opinion, sir?

18 A That was a period of time when he began smoking on a  
19 daily basis, that's when he began -- when he escalated to  
20 smoking up to about ten cigarettes per day. And a vast  
21 majority of people who smoke ten cigarettes every day are  
22 addicted. They have difficulty quitting.

23 Q The fact that he is still smoking cigarettes after lung  
24 cancer, brain cancer, is that any indication to you of whether  
25 this man is addicted to cigarettes?

26 A Yes. Absolutely. One of the things you counsel a  
27 patient with cancer is that the chances of recurrence are  
28 higher if you smoke. You got -- it's just like having a heart

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1 attack. You got to stop smoking. And someone who continues to  
2 smoke who is not, frankly, suicidal means that he really has --  
3 just does not have control over that drug use. He continues to  
4 use something that he knows is doing very serious harm to  
5 himself, and that's drug addiction.

6 Q In your research and your work have you had occasion to  
7 review documents from tobacco companies regarding the subject  
8 of nicotine and addiction?

9 A Yes.

10 Q Okay. I'd like to show you one of the those documents at  
11 this point.

12 MR. GROSSMAN: Would you show it to us first?

13 MR. PAUL: Sure. It's Exhibit Number 1.  
14 MS. KESSLER: One?  
15 MR. PAUL: One.  
16 May I place this in front of the witness, your Honor?  
17 THE COURT: Yes.  
18 MR. PAUL: Marked as Exhibit Number 1.  
19 Q (By MR. PAUL) Have you had occasion to review this  
20 document, sir?  
21 A Yes, I have.  
22 Q On a number of occasions?  
23 A Yes.  
24 Q All right.  
25 MR. PAUL: Your Honor, I'd move in this document.  
26 MR. BARRON: Your Honor, we have no objection to Exhibit  
27 1.  
28 THE COURT: Okay. Exhibit 1 is received. One is  
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1 received.  
2 (Plaintiffs' Exhibit 1 was received into evidence.)  
3 Q (By MR. PAUL) This document is entitled -- may I have  
4 the -- thank you -- Motives and Incentives in Cigarette Smoking  
5 William L. Dunn. Philip Morris Research Center. Richmond  
6 Virginia.  
7 A Yes.  
8 Q Okay. What I'd like to do is turn your attention if I  
9 could to page two of that document.  
10 Are you familiar with this page, sir?  
11 A Yes.  
12 Q And in this article it talks about -- I'm pointing our  
13 attention to where it starts, "You've heard many explanations  
14 for cigarette smoking."  
15 A Yes.  
16 Q All right. You've reviewed those reasons?  
17 A Yes.  
18 Q As a scientist, what is your view on those reasons?  
19 A Well, these are various aspects of why people smoke  
20 cigarettes. And some of them are some of the things that occur  
21 in the beginning, like social acceptance, smoking with your  
22 peers. Some of things are things that are associated with  
23 handling a cigarette, oral gratification, psychomotor habit.  
24 And then the last one is the one that we've been talking  
25 about which is the pharmacological effect of smoke  
26 constituents, which means you're smoking to get some effect on  
27 your body of some component of the tobacco smoke.  
28 Q I just realized I'm standing in front of people. I'm not  
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1 sure where to go not to stand in front of you. So maybe I'll  
2 move over here, if that's okay.  
3 So from a scientific -- based on your background,  
4 training and experience and looking at this as a scientist, you  
5 would agree with the reasons that are put up there?  
6 MR. PAUL: And by the way, your Honor, this is a 1972  
7 document.  
8 Q (By MR. PAUL) You would agree with those reasons?  
9 A Yes.  
10 Q Okay. I'd like you to look at --  
11 MR. GROSSMAN: Well, your Honor, with regard to that,  
12 could we have a limiting instruction this is a post-1966 PM  
13 document?  
14 THE COURT: Approach the bench, please.  
15 (The following bench conference was then had.)

16 THE COURT: What limiting instruction are you seeking?  
17 MR. GROSSMAN: That this document is admitted only as  
18 against Philip Morris.  
19 THE COURT: Okay.  
20 MR. GROSSMAN: Yeah.  
21 MR. PAUL: I'll make that point. I should have done  
22 that. I apologize for not having done that. I'll make that  
23 point, that it's a Philip Morris document.  
24 THE COURT: Is that sufficient for your purposes?  
25 MR. GROSSMAN: I would like the jury to be instructed  
26 that it is admitted only against Philip Morris. It's not an  
27 R.J. Reynolds document and not offered --  
28 MR. BARRON: I don't mind to do it once, but to do it all

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1 the time it gets to begin -- then they begin to wonder about  
2 how it's going play out.  
3 MR. PAUL: See, I think it might be better if I say this  
4 is --  
5 MR. GROSSMAN: Why don't we do it this way the first time  
6 and after that with regard to both PM documents and Reynolds  
7 documents -- we don't have to do it every time -- the jury can  
8 be instructed that the documents of one are not admitted as to  
9 the other.  
10 THE COURT: Is that okay?  
11 MR. PAUL: That's fine with me.  
12 (Bench conference concluded.)  
13 THE COURT: Okay. This document is admitted only as to  
14 the defendant Philip Morris and not as to R.J. Reynolds. The  
15 jury can consider it only as it relates to the defendant to  
16 whom it's admitted.  
17 MR. PAUL: Thank you, your Honor.  
18 Q (By MR. PAUL) Dr. Benowitz, you understood this to be a  
19 Philip Morris document, correct?  
20 A Yes.  
21 Q Okay. I want you to look at page four that I've put up,  
22 the highlighted area. And it says, "Without nicotine, the  
23 argument goes, there would be no smoking. Some strong evidence  
24 can be marshalled to support this argument," and then there are  
25 a number of things that are listed down there.  
26 First, based on your background, training and experience,  
27 this 1972 document, do you agree with what Philip Morris was  
28 saying?

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1 A Uh, yes. This is what I've said previously, that people  
2 do not smoke cigarettes without nicotine. And most of the  
3 effects, the psychological effects and the physiological  
4 effects, of smoking have been shown to be related to nicotine.  
5 And when there are cigarettes that are really low in  
6 nicotine, and there are only a few that are in this category,  
7 there's not much market demand for them. People don't buy  
8 cigarettes that don't give them enough nicotine. So this is  
9 very much consistent with the science of nicotine addiction.  
10 Q All right. I want to turn our attention sort of to that  
11 third paragraph where it does talk about the fact that there  
12 are some low nicotine brand entries into the market.  
13 Bless you.  
14 And what it says further down is, "94 percent of the  
15 cigarettes sold in the United States deliver more than one  
16 milligram of nicotine. 98.5 percent deliver more than .9  
17 milligrams."  
18 First, what is a milligram?

19 A A milligram is one-thousandths of a gram.  
20 Q Has any research or study been done as to a cigarette  
21 that -- what one might call -- what would be the range of  
22 nicotine that would stop the potential addicting effect versus  
23 what sort of is the border if you go over this line that it  
24 becomes addicting?  
25 A Um, yes. There's been work that I've done trying to  
26 understand this kind of threshold. It's not -- we're still  
27 working on it, but it's probably in the range of .05 milligrams  
28 is what it would take for a cigarette to be non-addicting.

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1 Q All right. And if we went to .05 milligrams, the impact  
2 here would be that -- if we would look at this, what they're  
3 saying here is that those cigarettes probably would not be  
4 bought.

5 A Right.

6 Q Okay. So the threshold here is to be non-addicting they  
7 have to drop the levels even lower than what they're talking  
8 about here?

9 A Let me take that back. It's not .05. It would actually  
10 be .4 to .5.

11 Q Okay.

12 A Of a true nicotine delivery.

13 Q All right. So somewhat less than the number they're  
14 talking about, the .9, correct? Or am I wrong?

15 A It's complicated. What I was talking about by .4 to .5  
16 is actually the amount of nicotine in the tobacco in the  
17 cigarette.

18 Q Okay.

19 A It's complicated because these yields from the machines  
20 don't correspond to what a smoker takes in. A smoker can  
21 basically take in about a milligram of nicotine no matter what  
22 commercial cigarettes they smoke.

23 What I've been proposing is different kind of cigarettes.  
24 I'm proposing cigarettes that are not commercially available,  
25 where there is actually less nicotine content than these  
26 cigarettes. And so if the content is down to point .4 or .5,  
27 the actual delivery would be about .1 to .2 and that would be a  
28 level which would be hard to sustain addiction.

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1 Q Okay. Thank you.

2 All right. I'd like you next to look at page five where  
3 it talks about, Cigarettes should be conceived not as a product  
4 but as a package, etcetera.

5 What are your views as a scientists on those comments?

6 A Well, this is what I was trying to explain before about  
7 the concept that a cigarette is really an effective drug  
8 delivery device. It delivers nicotine in a way that is easily  
9 controlled; that the person can control the dose; that each  
10 puff is really another dose of the drug; and that a cigarette  
11 package is really a convenient storage container for the doses  
12 of nicotine that a person would use throughout the day.

13 This is saying back in 1972 what I learned as a scientist  
14 about 15 years later.

15 Q All right. So in other words, what Philip Morris was  
16 saying in '72 you know to be true?

17 A Yes.

18 Q It's a dose delivery device?

19 A Yes.

20 Q Okay. Now, if I ask you to look at page six of the  
21 document, it says, "Think of a puff of smoke as the vehicle of

22 nicotine. A convenient 35 cc mouthful contains approximately  
23 the right amount of nicotine."  
24 Is that what you were sort of describing to us earlier?  
25 A Yes. Again, it comes back to the concept when you take a  
26 puff of smoke you're really taking a dose of nicotine that your  
27 body wants to take in and absorb.  
28 And as it says here, it gets very quickly transferred to  
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1 the bloodstream and very quickly transferred to the brain.  
2 Q Okay. And the thing that you talked about, titration, or  
3 calibration is sort of mentioned in that second paragraph as  
4 well?  
5 A Yes.  
6 Q Okay. I want you to look down a little bit further on  
7 this article. It said, Let me hasten to point out there are  
8 many other vehicles of sought-after agents which dispense in  
9 dose units; wine, tea and coffee.  
10 You see those?  
11 A Yes.  
12 Q Do you agree with those opinions?  
13 A Uh, well, yes and no. They -- they certainly -- those  
14 are certainly vehicles for drugs. When we're talking about an  
15 alcoholic drink, it's got alcohol in it. Tea and coffee have  
16 got caffeine in them. People don't always use them that way  
17 though. Especially tea and coffee drinkers. Alcohol maybe.  
18 But tea and coffee drinkers often are drinking much more in a  
19 ritual way than drinking for a drug effect, using it as a  
20 drug-dispensing system.  
21 Q Okay. Let me ask you a little bit -- well, hang on for  
22 one second.  
23 Maybe we can turn -- maybe I can ask it in a different  
24 fashion from another exhibit. I'm going to ask you to look at  
25 Exhibit Number 17 which I think there was a question.  
26 MR. BARRON: I thought you were not going to use the ones  
27 that had questions.  
28 MR. PAUL: No, I said I would raise it if you did have  
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1 one.  
2 MR. BARRON: We've alerted counsel to the issue, your  
3 Honor.  
4 MR. PAUL: Perhaps we could approach for just a moment,  
5 your Honor.  
6 THE COURT: All right.  
7 (The following bench conference was then had.)  
8 MR. PAUL: This is the exhibit. This is the one that's  
9 been up in front of the jury already. The proposal.  
10 MR. BARRON: Well, this is the one on which we made an  
11 objection on Noerr-Pennington and Civil Code Section 47. You  
12 overruled it for purposes of the opening statement. You --  
13 THE COURT: I want to take a look at this without just  
14 reading it. I want to look at this more carefully rather than  
15 just ruling on it in this fashion. We've got ten minutes left.  
16 MR. PAUL: Do you want me to move on to a different --  
17 THE COURT: Let's go on to a different subject. That's  
18 the only object objection? I want to take a close look at  
19 that.  
20 MR. BARRON: Thank you, your Honor.  
21 MR. PAUL: All right.  
22 (Bench conference concluded.)  
23 (An unreported discussion was then had between counsel.)  
24 MR. PAUL: We're sort of -- a little coordination here.



25 THE COURT: All right.  
26 MR. PAUL: No problem? Okay.  
27 Q (By MR. PAUL) Let me turn our attention then to  
28 Exhibit 389. Okay? And I'll put the document in front of you,  
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1 sir.  
2 This is a Philip Morris document. I'll ask to you look  
3 at that. Tell me if you -- have you seen that document before?  
4 A Yes.  
5 MR. BARRON: Well, your Honor -- I'm sorry. There is  
6 just a clerical error.  
7 This -- Gary, can you see for a sec? Sorry.  
8 (Pause.)  
9 MR. PAUL: I'm sorry, your Honor. I didn't think there  
10 was a problem on that document. Let me try to move to  
11 something else.  
12 (Pause.)  
13 MR. BARRON: I thought you were on 42. We have no  
14 problem with it.  
15 MR. PAUL: No, not there yet.  
16 MR. BARRON: Sorry.  
17 MR. PAUL: How about 405?  
18 THE COURT: Will you approach the bench, please.  
19 MR. PAUL: Sure, your Honor.  
20 (The following bench conference was then had.)  
21 THE COURT: Unless -- this is too awkward. We've got  
22 five minutes left, it's late, it's Friday afternoon. And I  
23 know there is a desire to get as much on as possible, but I  
24 think we should just break.  
25 MR. PAUL: All right, your Honor. I'm not sure -- we can  
26 break, but at some point we've got to discuss how to deal with  
27 these documents. Because if everyone is going to be objecting  
28 it's going to take us forever to get through this.  
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1 THE COURT: We have to set up some way of doing this.  
2 MR. GROSSMAN: We all agree.  
3 MR. PAUL: That's going to happen with every witness.  
4 MR. GROSSMAN: I would just note, it appears that the  
5 witness isn't even close to done, and we were -- it was  
6 represented that we would probably begin cross today. Now, I  
7 know we started late, and I don't know how long the direct is.  
8 My only concern is if he's coming back next Thursday we have  
9 fully adequate time to conduct a cross by both parties.  
10 MR. PAUL: You know, I wanted to get started. I had him  
11 here at 9:00 a.m. this morning.  
12 THE COURT: Let's do our best.  
13 MR. GROSSMAN: Right.  
14 THE COURT: That's all we can do.  
15 (Bench conference concluded.)  
16 THE COURT: Okay. We're going to take the evening  
17 recess, the weekend recess. Before you leave -- don't get up  
18 yet, please. Remember not to discuss the case. Do not permit  
19 to anyone to talk to you about the case. Avoid anything you  
20 may have any contact with that has anything to do in any way  
21 with the subject matter of this case.  
22 And we very much appreciate your involvement and your  
23 being here and your participation. That's greatly  
24 appreciated.  
25 Let me just indicate that I'm going to instruct you at  
26 the conclusion of the case about a lot of things, including  
27 objections. And you're not to -- you're not to draw any

28 inferences because someone has made an objection or the  
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1 reason. That's something that should not concern you  
2 whatsoever. You shouldn't speculate about it.  
3 So have a nice weekend. Monday is a Court holiday.  
4 We'll resume Tuesday at 9:00 o'clock in the morning. Tuesday  
5 at 9:00. Have a nice weekend.  
6 (The following proceedings were then had in open court  
7 outside the presence of the jury.)  
8 THE COURT: Okay. Anything else?  
9 The jury is gone now.  
10 MR. PAUL: Your Honor, I don't know what to suggest on  
11 this. What happens is we exchanged exhibit lists --  
12 THE COURT: Right.  
13 MR. PAUL: -- that we were going to use with a given  
14 witness. I got their objections I guess about -- Mr. Barron  
15 was kind enough to call me at 10:30 last night with his  
16 objections. I understand we're all working hard and trying to  
17 get this done.  
18 The problem is that I'm not sure how to go through this  
19 process because I think -- I'm going to obviously have a list  
20 of documents for most of -- most of these witnesses. And, you  
21 know, when -- I only had about 12 documents to go through, but  
22 when seven or eight of them are objected to on the basis of  
23 preemption or Noerr-Pennington or all these -- I mean it's  
24 going to break down the discussion with every witness. I --  
25 some of these documents have been shown to the jury --  
26 THE COURT: Okay.  
27 MR. PAUL: -- and there were objections to them. So --  
28 THE COURT: Right.

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1 MR. PAUL: -- I don't know how to deal with it.  
2 THE COURT: I think that you should do your -- I know  
3 everyone is working hard. I recognize this is a very demanding  
4 process for everybody involved. Do your best to share the  
5 documents you're going to use for experts in advance of that  
6 expert's testimony. And I'll try to set aside some time before  
7 the witness actually gets here so that we can kind of preview  
8 and make determinations on those in advance, rather than  
9 wasting the expert's time and the expense that's associated  
10 with that. So I'll set aside some time. I'll try to do that.  
11 MR. PAUL: I wish I had mentioned that earlier because  
12 we're going to have another expert on on Monday. They've  
13 already gotten the exhibit --  
14 MR. GROSSMAN: Tuesday.  
15 MR. PAUL: On Tuesday. Excuse me. Tuesday.  
16 MR. GROSSMAN: We won't be here Monday.  
17 MR. PAUL: Tuesday. I know.  
18 I've given them the exhibits.  
19 THE COURT: Are there a lot of exhibits?  
20 MR. PAUL: Well, there are but I -- normally what it  
21 does -- I have to give them an omnibus of exhibits, you know,  
22 we need to cover. Like this case, I gave them about 40 or  
23 maybe even 50, and it ends up we're going to use ten of them.  
24 THE COURT: So come in at 8:30 on Tuesday and --  
25 MR. PAUL: Oh, okay.  
26 MR. BARRON: Your Honor --  
27 MR. PAUL: That's a great idea. Certainly. 8:30 is  
28 fine.

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1 THE COURT: All right?  
2 MR. GROSSMAN: That's fine, your Honor.  
3 MR. PAUL: That's fine, your Honor.  
4 MR. BARRON: That's fine, your Honor. We'll try to solve  
5 this.  
6 I do think -- I would just like to mention something,  
7 because we did work very hard. I myself worked until about ten  
8 to 10:00 last night when I should be doing opening statements  
9 and worrying about the witness to come.  
10 I would just like to indicate so the Court knows, these  
11 things are typically a problem. We will work very hard to not  
12 impose upon the Court and the jury's time.  
13 It is for that reason back in August -- and I have a copy  
14 of a letter -- that we proposed a system for mutual exchange of  
15 information on exhibits and a meet-and-confer process. We  
16 never got it accomplished. I'm not faulting counsel. A lot of  
17 things happened. It wasn't actually the letter to this  
18 particular counsel. We reiterated that effort in September.  
19 We also asked the Court here to provide us a special  
20 assigned judge before trial so we could work on these things  
21 because we knew they'd be a problem along with motions in  
22 limine.  
23 And just the last thing I'd like to say, and I'm sure  
24 you'll appreciate it, I have been told we have been given a  
25 list of approximately 700 documents.  
26 MR. PAUL: 700?  
27 MR. BARRON: Total. Not for today.  
28 MR. PAUL: Oh, total. Plaintiffs' exhibits.

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1 MR. BARRON: Total. And they're never the same 700,  
2 they're never the same 2000 in other cases, although there are  
3 some similarities. And it is quite a difficult task, and we  
4 need to be -- for our client, we're asked to be very careful as  
5 lawyers not to waive some important privileges like the  
6 Noerr-Pennington Doctrine that I raised.  
7 We'll work very hard, I want you to know. We're not in  
8 any way trying to make it difficult for counsel. It's just an  
9 ominous task. We had teams of people working on it last night.  
10 THE COURT: I have a sense for that. I appreciate that.  
11 We'll do the best we can.  
12 MR. PAUL: Let me just say, I agreed with -- actually, I  
13 agreed with their concept of trying to have a judge sometime --  
14 we joined in their motion. We had someone set up to assist in  
15 this process, and I'm not blaming anybody or --  
16 THE COURT: You're not?  
17 MR. PAUL: It would have made things --  
18 THE COURT: That's not the message I'm getting. Okay.  
19 MR. PAUL: I'm not blaming anybody. I want that clear on  
20 the record.  
21 THE COURT: All right. We'll see you on Tuesday  
22 morning.  
23 COUNSEL IN UNISON: Have a good weekend.  
24 (Evening recess.)

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